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This document is a guide to hospital library resources in the Northeastern Ohio Regional Medical Program (NEORMP). This information is intended to provide a data base for establishment of a network of hospital libraries linked to the major resource libraries in the region. Data collected in a survey of the 73 hospitals involved in the NEORMP cover patient care, education and research functions of the hospitals. Additional data are used to analyze the funding, organization, and operation of the 50 hospital libraries identified as functional, or those reporting personnel engaged in library activities. Data describing the educational attainment, age, job mobility, work experience, percentage of time spent in the library, etc., of the staffs of these libraries are also presented. A list of hospitals included in the NEORMP is appended. (CC)

LI 001019

EDUCATION FOR HOSPITAL LIBRARY PERSONNEL  
Continuation of  
FEASIBILITY STUDY FOR CONTINUING EDUCATION OF MEDICAL LIBRARIANS

HOSPITAL LIBRARY PLANNING DATA  
FOR THE  
NORTHEASTERN OHIO REGIONAL MEDICAL PROGRAM

INTERIM REPORT NO. 3

Work supported by PHS Grant LM-00-422  
through the National Library of Medicine

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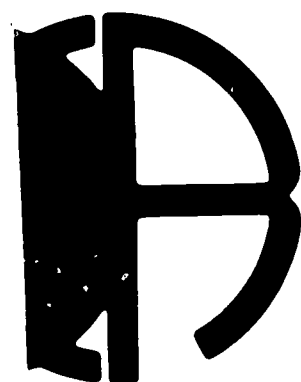
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August 1, 1968

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## Chapter I

### INTRODUCTION

This report was prepared to serve as a guide to hospital library resources in the Northeastern Ohio Regional Medical Program. It is anticipated that the information contained herein will constitute a data base for the design and implementation of a network of hospital libraries linked to the major resource libraries within the Region. Computer printouts of all relevant data have been made available to Barry Decker, M.D., Coordinator of the Northeastern Ohio Regional Medical Program. Apart from its relevance to Northeastern Ohio the Report may be of some use as an exemplar for similar data collecting and library planning activities in other Regional Medical Programs both in Ohio and elsewhere.

Data are presented describing the patient care, education and research functions in the 73 hospitals determined to be located within the Northeastern Ohio Regional Medical Program.\* Next, data are presented and analyzed with respect to the funding, organization and operation of the 50 hospital libraries within the Northeastern Ohio Regional Medical Program identified as functional (i.e., reporting personnel engaged in library activities). Finally, data are presented describing the manpower employed in these libraries with respect to educational attainment, age, job mobility, work experience, percentage of time spent in the library, etc.

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\* See Appendix A for a list of these hospitals.

The data presented in this Report were gathered in connection with a research investigation entitled "Feasibility Study for Continuing Education of Medical Librarians"\* which has as its objective the upgrading of hospital library practice in Ohio by means of continuing education programs. As a preliminary step in the design, implementation and evaluation of educational offerings for hospital library manpower a data bank has been created by extensive survey efforts relating to the location, facilities, resources, functions, services, budgets and personnel of all hospital libraries in Ohio. Data have also been gathered in relation to the patient care, education and research functions of Ohio hospitals since the design of the research project is based upon the fundamental assumption that the hospital library located within the hospital environment is, or ought to be, engaged in a series of interactions with each of the primary hospital functions, taken separately and in combination, and that the resources, facilities, services and personnel of the library should be observed and evaluated within this series of relationships. This larger research project has been reported elsewhere.\*\*

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\* Supported by PHS Grant LM-00422 through the Extramural Program, National Library of Medicine.

\*\*See Rees, Alan M. and Lesliebeth Rothenberg, "Feasibility Study for Continuing Education of Medical Librarians," Interim Report No. 1., Center for Documentation and Communication Research, Case Western Reserve University, January 15, 1968, 66 p; and "Education for Hospital Library Personnel" (Continuation of Feasibility Study for Continuing Education for Medical Librarians)" Interim Report No. 2., Center for Documentation and Communication Research, Case Western Reserve University, July 16, 1968, 99 p.



It is argued that the successful implementation of national and regional medical library networks will necessarily involve an upgrading of hospital libraries. The development of resource libraries as nodes in regional medical library networks has to be accompanied by support of the "retail outlets" -- the libraries in the various hospitals standing in several degrees of proximity to the metropolitan or regional library centers. Yet the role of the hospital library within the hospital system and the relationship of the individual hospital library to regional and other resource libraries located in university medical centers and elsewhere have yet to be adequately conceptualized. Although the potential role of the hospital library is recognized, and despite an awareness that the overwhelming majority of libraries do not function as efficient channels of communication, effective upgrading has been hindered by a lack of reliable data.

The rapidly developing regionalization of hospital services will continue to exert a powerful influence on the development of hospital library practice. It is evident that any regional planning of library services should follow the existing and projected planning of regional health care services. The impact of Regional Medical Programs in this connection will in the long run be very influential. The role of the medical library within this context is becoming increasingly evident. The improvement of patient care through research, continuing education and training and the development of better methods for the exchange of

information among medical schools, medical centers, community hospitals, practicing physicians and other health institutions can be facilitated and strengthened by the provision of more adequate library services within coalescing regional configurations. This fact has been recognized by a number of Regional Medical Programs which are actively engaged in the planning and implementation of medical library networks.



## Chapter II

### DATA DESCRIBING HOSPITAL FUNCTIONS -- PATIENT CARE, RESEARCH AND EDUCATION -- WITHIN NORTHEASTERN OHIO REGIONAL MEDICAL PROGRAM

#### A. Sources and Organization of Data

The data reported in this, and in the following two, chapters were gathered as a result of a survey of all hospitals within the Northeastern Ohio Regional Medical Program (NEORMP) encompassing twelve counties.\* The survey population was defined as all hospitals within this region possessing a medical library.

The survey population was identified by a two-step process. First, all existing hospitals within the 12 county region were identified from the Ohio State Department of Health "List of Health Care Facilities" and from the August 1967 Guide Issue of the Journal of the American Hospital Association. Second, each hospital was examined to determine whether a medical library existed. This determination was made on the basis of a set of four criteria. These criteria were drawn from data reported in the Annual Hospital Registration Report, completed by each hospital and submitted to the Ohio State Department of Health, and from a questionnaire sent directly to each hospital administrator.\*\*

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\*Ashtabula, Columbiana, Cuyahoga, Geauga, Lake, Lorain, Mahoning, Medina, Portage, Stark, Summit and Trumbull counties.

\*\*See Interim Report number one for the Questionnaire.

The four criteria were:

- (i) Accreditation of the hospital by the Joint Commission on Hospital Accreditation
- (ii) Report by the hospital that a medical library exists within its institution
- (iii) Indication by the hospital that the library is funded
- (iv) Identification of personnel in the library

Each hospital meeting at least one of these criteria was accepted as a member of the survey population. These criteria are considered to represent minimal requirements for a library and thereby to assure that any hospital having any kind of an operational library would be surveyed. Seventy-three hospitals were in this manner included in the survey population for the Northeastern Ohio Regional Medical Program.

The survey population includes long and short term, federal and non-federal, hospitals. Most state-supported hospitals were excluded since relevant data concerning their patient care, research and educational functions could not be obtained from the Ohio Department of Mental Hygiene.

The total survey population has been divided into two sub-populations: sub-population #1 includes short and long term general hospitals; sub-population #2 includes short-and long-term specialty hospitals.

The data reported in this chapter were drawn from the 1967 Annual Hospital Registration Report completed by all Ohio hospitals and from the Administrator's Questionnaire, on which a near-100% return was achieved. The focus in our research is on activities within the hospital which are hypothesized to have a direct relationship to the hospital's library. Specifically, within the patient care program interest centered on facilities and services, organized clinics in the outpatient department, organized

medical departments (or services) within the hospital, total numbers of hospital personnel and the numbers of hospital personnel involved in the various aspects of direct patient care. Within the research program, interested focussed on the size of the research effort undertaken within the hospital and on the subject areas of the research. Within the educational program, data was gathered with reference to training programs including the types of residency specialties offered and continuing education programs. The relationships between these programs and their interrelationships with the medical library are explored in detail elsewhere\*.

#### B. Tables

The following tables are computer generated, and appear in sets of three. For example, data relating to facilities and services appear first for the total population and separately for each of the two sub-populations. This format is followed for each variable. Inconsistencies in totals reflect inconsistencies in the original data.

The bed increments are those used in analyzing similar data across the state for 227 hospitals. The increments were established by dividing

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\*Data relating to continuing education programs and to the size of research programs are not included here since it is difficult to represent such data meaningfully in table form. See Rees, Alan M. and Lesliebeth Rothenberg, Interim Report No. 2 cited above.

the 227 hospitals into equal groups. Within the Northeastern Ohio Regional Medical Program there are 19 hospitals in the 25-100 bed increment, 14 in the 101-175 bed increment, 11 in the 176-250 bed increment, 8 in the 251 to 325 bed increment, and 22 in the over 326 bed increment.

## TOTAL POPULATION

TABLE 1

| BED INCREMENTS  | FACILITIES AND SERVICES |         |         |         |         |          | TOTAL |
|-----------------|-------------------------|---------|---------|---------|---------|----------|-------|
|                 | 25-100                  | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| ANESTHESIA      | 15                      | 11      | 10      | 7       | 8       | 11       | 62    |
| AUTOPSY         | 9                       | 10      | 11      | 7       | 8       | 11       | 56    |
| BLOOD BANK      | 14                      | 9       | 11      | 7       | 7       | 11       | 59    |
| CANCER REGISTER | 1                       | 2       | 6       | 7       | 6       | 10       | 32    |
| CANCIOLOGY      | 2                       | 2       | 7       | 4       | 6       | 11       | 32    |
| CHAPEL          | 8                       | 8       | 9       | 5       | 7       | 8        | 46    |
| CLINICAL LAB    | 19                      | 13      | 11      | 7       | 8       | 11       | 69    |
| CONALT THERAPY  | 0                       | 0       | 0       | 2       | 3       | 8        | 13    |
| DELIVERY        | 13                      | 9       | 9       | 7       | 6       | 0        | 53    |
| DENTAL          | 6                       | 3       | 4       | 3       | 7       | 8        | 31    |
| DIETARY         | 18                      | 12      | 11      | 7       | 8       | 11       | 67    |
| ELECTROCARDIOLO | 19                      | 13      | 10      | 7       | 8       | 11       | 68    |
| ELECTROENCEPHAL | 1                       | 2       | 6       | 3       | 7       | 11       | 30    |
| ORGANIZED EMERG | 15                      | 8       | 10      | 7       | 7       | 11       | 58    |
| EXTENDED CARE   | 2                       | 0       | 1       | 0       | 1       | 1        | 5     |
| FAMILY PLANNING | 2                       | 0       | 0       | 0       | 3       | 4        | 9     |
| HOME CARE       | 2                       | 0       | 0       | 1       | 1       | 0        | 4     |
| ORG HOSPITAL AU | 16                      | 11      | 11      | 7       | 6       | 8        | 59    |
| INTENSIVE CARE  | 1                       | 3       | 5       | 6       | 4       | 10       | 29    |
| MEDICAL LIBRARY | 17                      | 12      | 11      | 7       | 8       | 11       | 66    |
| MEDICAL RECORDS | 19                      | 13      | 11      | 7       | 8       | 11       | 69    |
| MED SOCIAL SER  | 4                       | 2       | 4       | 3       | 6       | 9        | 28    |
| OCCUPATIONAL TH | 2                       | 2       | 1       | 1       | 4       | 8        | 18    |
| OPERATING RM    | 18                      | 13      | 11      | 7       | 8       | 11       | 68    |
| ORG OUTPATIENT  | 4                       | 2       | 5       | 6       | 7       | 10       | 34    |
| PATH LAB        | 14                      | 10      | 11      | 7       | 8       | 11       | 61    |
| PHARMACY        | 12                      | 12      | 11      | 7       | 7       | 11       | 60    |
| PHYSICAL THERAP | 4                       | 8       | 10      | 7       | 8       | 11       | 48    |
| POST OP REC RM  | 12                      | 11      | 11      | 7       | 7       | 11       | 59    |
| PREMATURE NURSE | 8                       | 8       | 10      | 7       | 6       | 8        | 48    |
| PSYCHIATRIC INP | 1                       | 0       | 2       | 2       | 3       | 8        | 16    |
| RADIOACTIVE IST | 1                       | 6       | 9       | 7       | 7       | 11       | 41    |
| RADIUM THERAPY  | 3                       | 5       | 5       | 6       | 6       | 11       | 36    |
| REHABILITATION  | 1                       | 0       | 0       | 3       | 2       | 3        | 9     |
| XRAY DIAGNOSTIC | 19                      | 13      | 11      | 7       | 8       | 11       | 69    |
| XRAY ROUTINE    | 12                      | 8       | 5       | 2       | 4       | 6        | 37    |
| XRAY THERAPEUT  | 2                       | 6       | 9       | 6       | 7       | 11       | 41    |

## EXPERIMENTAL POPULATION 1

TABLE 2

| BED INCREMENTS   | FACILITIES AND SERVICES |         |         |         |         |          | TOTAL |
|------------------|-------------------------|---------|---------|---------|---------|----------|-------|
|                  | 25-100                  | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| ANESTHESIA       | 12                      | 11      | 9       | 7       | 6       | 11       | 56    |
| AUTOPSY          | 9                       | 9       | 10      | 7       | 6       | 11       | 48    |
| BLOOD BANK       | 11                      | 9       | 10      | 7       | 6       | 11       | 54    |
| CANCER REGISTER  | 1                       | 2       | 6       | 7       | 6       | 10       | 32    |
| CARDIOLOGY       | 2                       | 2       | 6       | 4       | 6       | 11       | 31    |
| CHAPEL           | 4                       | 7       | 9       | 5       | 6       | 9        | 40    |
| CLINICAL LAB     | 14                      | 11      | 10      | 7       | 3       | 11       | 50    |
| COBALT THERAPY   | 0                       | 0       | 0       | 2       | 3       | 0        | 13    |
| DELIVERY         | 10                      | 9       | 9       | 7       | 6       | 9        | 50    |
| DENTAL           | 3                       | 1       | 4       | 3       | 5       | 0        | 24    |
| DIETARY          | 13                      | 10      | 10      | 7       | 6       | 11       | 57    |
| ELECTROCARDIOLO  | 14                      | 11      | 9       | 7       | 6       | 11       | 56    |
| ELECTROENCEPHAL  | 0                       | 2       | 5       | 3       | 6       | 11       | 27    |
| ORGANIZED EMERG  | 13                      | 0       | 9       | 7       | 6       | 11       | 54    |
| EXTENDED CARE    | 1                       | 0       | 1       | 0       | 0       | 1        | 3     |
| FAMILY PLANNING  | 0                       | 0       | 0       | 0       | 3       | 4        | 7     |
| HOME CARE        | 1                       | 0       | 0       | 1       | 0       | 0        | 2     |
| ORG HOSPITAL AU  | 12                      | 11      | 10      | 7       | 6       | 0        | 54    |
| INTENSIVE CARE   | 1                       | 3       | 5       | 6       | 4       | 10       | 29    |
| MEDICAL LIBRARY  | 12                      | 10      | 10      | 7       | 6       | 11       | 56    |
| MEDICAL RECORDS  | 14                      | 11      | 10      | 7       | 6       | 11       | 59    |
| MED SOCIAL SER   | 0                       | 0       | 3       | 3       | 5       | 9        | 20    |
| OCCUPATIONAL TH  | 0                       | 1       | 1       | 1       | 2       | 0        | 13    |
| OPERATING RM     | 14                      | 11      | 10      | 7       | 6       | 11       | 59    |
| ORG OUTPATIENT   | 0                       | 0       | 4       | 6       | 5       | 10       | 25    |
| PATH LAB         | 12                      | 10      | 10      | 7       | 6       | 11       | 56    |
| PHARMACY         | 7                       | 11      | 10      | 7       | 6       | 11       | 52    |
| PHYSICAL THERAP  | 3                       | 0       | 9       | 7       | 6       | 11       | 44    |
| POST OP REC RM   | 9                       | 11      | 10      | 7       | 6       | 11       | 54    |
| PRENATURE NURSE  | 9                       | 0       | 9       | 7       | 6       | 9        | 44    |
| PSYCHIATRIC INP  | 0                       | 0       | 2       | 2       | 2       | 0        | 14    |
| RADIOACTIVE IST  | 0                       | 6       | 9       | 7       | 6       | 11       | 39    |
| RADIUM THERAPY   | 2                       | 5       | 5       | 6       | 6       | 11       | 35    |
| REHABILITATION   | 0                       | 0       | 0       | 3       | 1       | 3        | 7     |
| XRAY DIAGNOSTIC  | 14                      | 11      | 10      | 7       | 6       | 11       | 59    |
| XRAY ROUTINE     | 9                       | 6       | 4       | 2       | 3       | 6        | 30    |
| XRAY THERAPEUTIC | 2                       | 6       | 0       | 6       | 6       | 11       | 39    |

EXPERIMENTAL POPULATION 2

TABLE 3

| BED INCREMENTS  | FACILITIES AND SERVICES |         |         |         |         |          | TOTAL |
|-----------------|-------------------------|---------|---------|---------|---------|----------|-------|
|                 | 25-100                  | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| ANESTHESIA      | 3                       | 0       | 1       | 0       | 2       | 0        | 6     |
| AUTOPSY         | 4                       | 1       | 1       | 0       | 1       | 0        | 7     |
| BLOOD BANK      | 3                       | 0       | 1       | 0       | 0       | 0        | 4     |
| CANCER REGISTER | 0                       | 0       | 1       | 0       | 0       | 0        | 1     |
| CARDIOLOGY      | 0                       | 0       | 1       | 0       | 0       | 0        | 1     |
| CHAPEL          | 4                       | 1       | 0       | 0       | 1       | 0        | 6     |
| CLINICAL LAB    | 5                       | 2       | 1       | 0       | 0       | 0        | 8     |
| COBALT THERAPY  | 0                       | 0       | 1       | 0       | 0       | 0        | 1     |
| DELIVERY        | 3                       | 0       | 0       | 0       | 0       | 0        | 3     |
| DENTAL          | 3                       | 2       | 0       | 0       | 2       | 0        | 7     |
| DIETARY         | 5                       | 2       | 1       | 0       | 2       | 0        | 10    |
| ELECTROCARDIOLO | 5                       | 2       | 1       | 0       | 1       | 0        | 9     |
| ELECTROENCEPHAL | 1                       | 0       | 1       | 0       | 1       | 0        | 3     |
| ORGANIZED EMERG | 2                       | 0       | 1       | 0       | 1       | 0        | 4     |
| EXTENDED CARE   | 1                       | 0       | 0       | 0       | 1       | 0        | 2     |
| FAMILY PLANNING | 2                       | 0       | 0       | 0       | 0       | 0        | 2     |
| HOME CARE       | 1                       | 0       | 1       | 0       | 1       | 0        | 3     |
| ORG HOSPITAL AU | 4                       | 0       | 1       | 0       | 0       | 0        | 5     |
| INTENSIVE CARE  | 0                       | 0       | 1       | 0       | 0       | 0        | 1     |
| MEDICAL LIBRARY | 5                       | 2       | 1       | 0       | 2       | 0        | 10    |
| MEDICAL RECORDS | 5                       | 2       | 1       | 0       | 1       | 0        | 9     |
| MED SOCIAL SER  | 4                       | 2       | 1       | 0       | 1       | 0        | 8     |
| OCCUPATIONAL TH | 2                       | 1       | 0       | 0       | 2       | 0        | 5     |
| OPERATING RM    | 4                       | 2       | 1       | 0       | 2       | 0        | 9     |
| ORG OUTPATIENT  | 4                       | 2       | 1       | 0       | 2       | 0        | 9     |
| PATH LAB        | 2                       | 0       | 1       | 0       | 2       | 0        | 5     |
| PHARMACY        | 5                       | 1       | 1       | 0       | 2       | 0        | 9     |
| PHYSICAL THERAP | 1                       | 0       | 1       | 0       | 1       | 0        | 3     |
| POST OP REC RM  | 3                       | 0       | 1       | 0       | 1       | 0        | 5     |
| PREMATURE NURSE | 3                       | 0       | 1       | 0       | 0       | 0        | 4     |
| PSYCHIATRIC INP | 1                       | 0       | 0       | 0       | 1       | 0        | 2     |
| RADIOACTIVE IST | 1                       | 0       | 0       | 0       | 1       | 0        | 2     |
| RADIUM THERAPY  | 1                       | 0       | 0       | 0       | 1       | 0        | 2     |
| REHABILITATION  | 1                       | 0       | 0       | 0       | 1       | 0        | 2     |
| XRAY DIAGNOSTIC | 5                       | 2       | 1       | 0       | 1       | 0        | 9     |
| XRAY ROUTINE    | 3                       | 2       | 1       | 0       | 1       | 0        | 7     |
| XRAY THERAPEUT  | 0                       | 0       | 1       | 0       | 1       | 0        | 2     |



## TOTAL POPULATION

TABLE 4

## CLINICS IN ORGANIZED OUTPATIENT DEPARTMENT

| BED INCREMENTS  | 25-100 | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 | TOTAL |
|-----------------|--------|---------|---------|---------|---------|----------|-------|
| CANCER          | 0      | 0       | 2       | 1       | 4       | 11       | 18    |
| DENTISTRY       | 0      | 0       | 0       | 1       | 2       | 9        | 12    |
| DERMATOLOGY     | 0      | 0       | 3       | 3       | 2       | 11       | 19    |
| EENT            | 0      | 0       | 3       | 3       | 4       | 10       | 20    |
| GERIATRICS      | 1      | 0       | 3       | 0       | 0       | 1        | 5     |
| GYNECOLOGY      | 1      | 0       | 3       | 6       | 3       | 12       | 27    |
| INTERNAL MEDIC  | 0      | 0       | 4       | 6       | 3       | 12       | 27    |
| MENTAL HYGIENE  | 1      | 0       | 0       | 0       | 0       | 4        | 5     |
| NEUROLOGY       | 2      | 0       | 2       | 2       | 2       | 8        | 16    |
| OBSTETRICS      | 1      | 0       | 3       | 6       | 3       | 9        | 24    |
| ORTHOPEDICS     | 0      | 0       | 3       | 3       | 3       | 10       | 23    |
| PEDIATRICS      | 0      | 0       | 3       | 3       | 3       | 8        | 21    |
| PHYSICAL MED    | 1      | 0       | 2       | 2       | 4       | 3        | 14    |
| PSYCHIATRY      | 1      | 0       | 0       | 0       | 2       | 8        | 11    |
| SURGERY         | 0      | 0       | 4       | 6       | 7       | 11       | 28    |
| TB              | 1      | 2       | 0       | 0       | 2       | 2        | 7     |
| UROLOGY         | 0      | 0       | 3       | 3       | 3       | 0        | 17    |
| WELL CHILD      | 0      | 0       | 1       | 3       | 3       | 3        | 10    |
| BLANK           | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| DELIVERIES      | 0      | 0       | 0       | 0       | 1       | 0        | 1     |
| RESPIRATORY DIS | 0      | 0       | 0       | 1       | 0       | 4        | 5     |
| DIGESTIVE SYDIS | 0      | 0       | 0       | 1       | 0       | 4        | 5     |
| INJURIES        | 1      | 0       | 0       | 1       | 0       | 4        | 6     |
| GENITO-URINARY  | 0      | 0       | 0       | 0       | 0       | 2        | 2     |
| CIRCULATORY     | 0      | 0       | 1       | 0       | 0       | 4        | 5     |
| NEOPLASMS       | 0      | 0       | 1       | 0       | 0       | 3        | 4     |
| NERVOUS SYSTEM  | 0      | 0       | 1       | 1       | 0       | 3        | 5     |
| BONES AND ORGAN | 0      | 0       | 0       | 0       | 2       | 4        | 6     |
| ALLERGY ENDOCR  | 0      | 0       | 0       | 2       | 0       | 3        | 5     |
| INFECTIVE DIS   | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| MENTAL DISORDER | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| CONNECTIVE TISS | 0      | 0       | 1       | 0       | 0       | 0        | 1     |
| CONGENITAL      | 0      | 0       | 1       | 0       | 0       | 0        | 1     |
| PEDIATRIC       | 0      | 0       | 0       | 0       | 1       | 1        | 2     |
| DENTAL CLINIC   | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| ADVISORY UNITS  | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| HOME SERVICES   | 0      | 0       | 0       | 0       | 1       | 0        | 1     |
| LABORATORY      | 1      | 0       | 0       | 0       | 0       | 3        | 4     |

## EXPERIMENTAL POPULATION 1

TABLE 5

## CLINICS IN ORGANIZED OUTPATIENT DEPARTMENT

| BFD INCREMENTS  | 25-100 | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 | TOTAL |
|-----------------|--------|---------|---------|---------|---------|----------|-------|
| CANCER          | 0      | 0       | 2       | 1       | 4       | 11       | 18    |
| DENTISTRY       | 0      | 0       | 0       | 1       | 2       | 9        | 12    |
| DERMATOLOGY     | 0      | 0       | 2       | 3       | 2       | 11       | 18    |
| DEPT            | 0      | 0       | 2       | 3       | 4       | 10       | 19    |
| GERIATRICS      | 0      | 0       | 3       | 0       | 0       | 1        | 4     |
| GYNCOLOGY       | 0      | 0       | 3       | 6       | 5       | 12       | 26    |
| INTERNAL MEDIC  | 0      | 0       | 3       | 6       | 5       | 12       | 26    |
| MENTAL HYGIENE  | 0      | 0       | 0       | 0       | 0       | 4        | 4     |
| NEUROLOGY       | 0      | 0       | 1       | 2       | 2       | 8        | 13    |
| OBSTETRICS      | 0      | 0       | 3       | 6       | 5       | 9        | 23    |
| ORTHOPEDICS     | 0      | 0       | 2       | 5       | 4       | 10       | 21    |
| PEDIATRICS      | 0      | 0       | 2       | 5       | 5       | 8        | 20    |
| PHYSICAL MED    | 0      | 0       | 2       | 2       | 3       | 5        | 12    |
| PSYCHIATRY      | 0      | 0       | 0       | 0       | 2       | 8        | 10    |
| SURGERY         | 0      | 0       | 3       | 6       | 6       | 11       | 26    |
| TR              | 0      | 0       | 0       | 0       | 1       | 2        | 3     |
| UROLOGY         | 0      | 0       | 2       | 3       | 3       | 5        | 16    |
| WELL CHILD      | 0      | 0       | 0       | 3       | 3       | 3        | 9     |
| BLANK           | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| DELIVERIES      | 0      | 0       | 0       | 0       | 1       | 0        | 1     |
| RESPIRATORY DIS | 0      | 0       | 0       | 1       | 0       | 4        | 5     |
| DIGESTIVE SYDIS | 0      | 0       | 0       | 1       | 0       | 4        | 5     |
| INJURIES        | 1      | 0       | 0       | 0       | 0       | 1        | 2     |
| GENITO-URINARY  | 0      | 0       | 0       | 0       | 0       | 2        | 2     |
| CIRCULATORY     | 0      | 0       | 0       | 0       | 0       | 4        | 4     |
| NEOPLASMS       | 0      | 0       | 0       | 0       | 0       | 1        | 1     |
| NERVOUS SYSTEM  | 0      | 0       | 0       | 1       | 0       | 3        | 4     |
| BONES AND ORGAN | 0      | 0       | 0       | 0       | 2       | 4        | 6     |
| ALLERGY ENDOCR  | 0      | 0       | 1       | 2       | 0       | 5        | 8     |
| INFECTIVE DIS   | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| MENTAL DISORDER | 0      | 0       | 0       | 0       | 0       | 2        | 2     |
| CONNECTIVE TISS | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| CONGENITAL      | 0      | 0       | 0       | 0       | 1       | 1        | 2     |
| PEDIATRIC       | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| DENTAL CLINIC   | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| ADVISORY UNITS  | 0      | 0       | 0       | 0       | 1       | 0        | 1     |
| HOME SERVICES   | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| LABORATORY      | 1      | 0       | 0       | 0       | 0       | 3        | 4     |

## EXPERIMENTAL POPULATION 2

TABLE 6

## CLINICS IN ORGANIZED OUTPATIENT DEPARTMENT

| BED INCREMENTS  | 25-100 | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 | TOTAL |
|-----------------|--------|---------|---------|---------|---------|----------|-------|
| CANCER          | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| DENTISTRY       | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| DERMATOLOGY     | 0      | 0       | 1       | 0       | 0       | 0        | 1     |
| EENT            | 0      | 0       | 1       | 0       | 0       | 0        | 1     |
| GERIATRICS      | 1      | 0       | 0       | 0       | 0       | 0        | 1     |
| GYNECOLOGY      | 1      | 0       | 0       | 0       | 0       | 0        | 1     |
| INTERNAL MEDIC  | 0      | 0       | 1       | 0       | 0       | 0        | 1     |
| MENTAL HYGIENE  | 1      | 0       | 0       | 0       | 0       | 0        | 1     |
| NEUROLOGY       | 2      | 0       | 1       | 0       | 0       | 0        | 3     |
| OBSTETRICS      | 1      | 0       | 0       | 0       | 0       | 0        | 1     |
| ORTHOPEDICS     | 0      | 0       | 1       | 0       | 1       | 0        | 2     |
| PEDIATRICS      | 0      | 0       | 1       | 0       | 0       | 0        | 1     |
| PHYSICAL MED    | 1      | 0       | 0       | 0       | 1       | 0        | 2     |
| PSYCHIATRY      | 1      | 0       | 0       | 0       | 0       | 0        | 1     |
| SURGERY         | 0      | 0       | 1       | 0       | 1       | 0        | 2     |
| TB              | 1      | 2       | 0       | 0       | 1       | 0        | 4     |
| UROLOGY         | 0      | 0       | 1       | 0       | 0       | 0        | 1     |
| WELL CHILD      | 0      | 0       | 1       | 0       | 0       | 0        | 1     |
| BLANK           | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| DELIVERIES      | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| RESPIRATORY DIS | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| DIGESTIVE SYDIS | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| INJURIES        | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| GENITO-URINARY  | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| CIRCULATORY     | 0      | 0       | 1       | 0       | 0       | 0        | 1     |
| NEOPLASMS       | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| NERVOUS SYSTEM  | 0      | 0       | 1       | 0       | 0       | 0        | 1     |
| BONES AND ORGAN | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| ALLERGY ENDOCR  | 0      | 0       | 1       | 0       | 0       | 0        | 1     |
| INFECTIVE DIS   | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| MENTAL DISORDER | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| CONNECTIVE TISS | 0      | 0       | 1       | 0       | 0       | 0        | 1     |
| CONGENITAL      | 0      | 0       | 1       | 0       | 0       | 0        | 1     |
| PEDIATRIC       | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| DENTAL CLINIC   | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| ADVISORY UNITS  | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| HOME SERVICES   | 0      | 0       | 0       | 0       | 0       | 0        | 0     |
| LABORATORY      | 0      | 0       | 0       | 0       | 0       | 0        | 0     |

## TOTAL POPULATION

TABLE 7

| MED SERVICES    | ORGANIZED MEDICAL SERVICES |         |         |         |         |          | TOTAL |
|-----------------|----------------------------|---------|---------|---------|---------|----------|-------|
|                 | 25-100                     | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| MEDICINE        | 12                         | 12      | 10      | 6       | 5       | 7        | 52    |
| INTERNAL MED    | 8                          | 6       | 6       | 6       | 5       | 12       | 43    |
| SURGERY         | 12                         | 11      | 10      | 7       | 7       | 12       | 59    |
| PEDIATRICS      | 6                          | 8       | 10      | 5       | 5       | 10       | 44    |
| OBSTETRICS      | 12                         | 9       | 9       | 7       | 5       | 8        | 50    |
| PATHOLOGY       | 10                         | 11      | 9       | 7       | 6       | 12       | 55    |
| RADIOLOGY       | 13                         | 12      | 9       | 7       | 6       | 12       | 59    |
| ANESTHESIOLOG   | 12                         | 11      | 10      | 7       | 7       | 11       | 58    |
| PSYCHIATRY      | 1                          | 0       | 2       | 5       | 3       | 11       | 22    |
| NEUROLOGY       | 1                          | 1       | 3       | 2       | 5       | 11       | 23    |
| NEUROSURGERY    | 0                          | 3       | 4       | 4       | 4       | 10       | 25    |
| OPHTHALMOLOGY   | 3                          | 3       | 7       | 4       | 5       | 12       | 34    |
| OTOLARYNGOLOGY  | 1                          | 2       | 6       | 3       | 6       | 11       | 29    |
| ORTHOPEDICS     | 3                          | 4       | 7       | 5       | 6       | 11       | 36    |
| GYNCOLOGY       | 9                          | 5       | 7       | 6       | 5       | 9        | 41    |
| CONTAGIOUS DIS  | 0                          | 1       | 1       | 0       | 0       | 4        | 6     |
| UROLOGY         | 2                          | 3       | 8       | 4       | 6       | 10       | 33    |
| BLANK           | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| GP              | 0                          | 0       | 0       | 2       | 0       | 2        | 4     |
| OUTPATIENT CL   | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| PHYSICAL MED    | 0                          | 0       | 1       | 0       | 2       | 1        | 4     |
| REHABILITATION  | 1                          | 0       | 3       | 0       | 1       | 2        | 4     |
| ALLERGY         | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| ARTHRITIS       | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| CARDIOLOG       | 0                          | 0       | 0       | 1       | 0       | 2        | 3     |
| CHEST           | 0                          | 0       | 0       | 0       | 1       | 0        | 1     |
| DENTISTRY       | 1                          | 0       | 0       | 0       | 2       | 2        | 5     |
| DERMATOLOGY     | 0                          | 0       | 0       | 1       | 1       | 2        | 4     |
| ENDOCRINOLOGY   | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| GASTROENTEROLOG | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| GERIATRICS      | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| HEMATOLOGY      | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| HEMODIALYSIS    | 0                          | 0       | 0       | 0       | 1       | 0        | 1     |
| HYPERTENSION    | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| KIDNEY          | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| NUCLEAR MED     | 0                          | 0       | 0       | 0       | 1       | 1        | 2     |
| ONCOLOGY        | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| PATHOLOGY       | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| PROCTOLOGY      | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| TB              | 1                          | 1       | 0       | 0       | 0       | 0        | 2     |
| VENERAL DIS     | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| ORAL SURGERY    | 0                          | 0       | 0       | 1       | 0       | 1        | 2     |
| PLASTIC SURGERY | 0                          | 0       | 1       | 0       | 0       | 1        | 2     |
| THORACIC SURGER | 0                          | 0       | 1       | 1       | 0       | 1        | 3     |
| VASCULAR SURGER | 0                          | 0       | 1       | 1       | 0       | 0        | 2     |
| MENTAL RETARD   | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |

## EXPERIMENTAL POPULATION 1

TABLE 8

| BED INCREMENTS  | ORGANIZED MEDICAL SERVICES |         |         |         |         |          | TOTAL |
|-----------------|----------------------------|---------|---------|---------|---------|----------|-------|
|                 | 25-100                     | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| MEDICINE        | 11                         | 10      | 9       | 6       | 3       | 6        | 45    |
| INTERNAL MED    | 7                          | 4       | 6       | 6       | 4       | 10       | 37    |
| SURGERY         | 11                         | 11      | 9       | 7       | 5       | 10       | 53    |
| PEDIATRICS      | 6                          | 8       | 9       | 5       | 5       | 10       | 43    |
| OBSTETRICS      | 11                         | 9       | 9       | 7       | 5       | 8        | 49    |
| PATHOLOGY       | 9                          | 11      | 8       | 7       | 5       | 10       | 50    |
| RADIOLOGY       | 12                         | 11      | 8       | 7       | 5       | 10       | 53    |
| ANESTHESIOLOG   | 11                         | 11      | 9       | 7       | 5       | 10       | 53    |
| PSYCHIATRY      | 0                          | 0       | 2       | 4       | 2       | 9        | 17    |
| NEUROLOGY       | 0                          | 1       | 2       | 2       | 4       | 9        | 18    |
| NEUROSURGERY    | 0                          | 3       | 4       | 4       | 4       | 9        | 24    |
| OPHTHALMOLOGY   | 3                          | 3       | 7       | 4       | 5       | 10       | 32    |
| OTOLARYNGOLOGY  | 1                          | 2       | 6       | 3       | 5       | 10       | 27    |
| ORTHOPEDICS     | 3                          | 4       | 6       | 5       | 5       | 10       | 33    |
| GYNCOLOGY       | 7                          | 5       | 7       | 6       | 5       | 9        | 39    |
| CONTAGIOUS DIS  | 0                          | 0       | 1       | 0       | 0       | 3        | 4     |
| UROLOGY         | 2                          | 3       | 7       | 4       | 5       | 9        | 30    |
| BLANK           | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| GP              | 0                          | 0       | 0       | 2       | 0       | 2        | 4     |
| OUTPATIENT CL   | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| PHYSICAL MED    | 0                          | 0       | 1       | 0       | 1       | 1        | 3     |
| REHABILITATION  | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| ALLERGY         | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| ARTHRITIS       | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| CARDIOLOG       | 0                          | 0       | 0       | 1       | 0       | 0        | 1     |
| CHEST           | 0                          | 0       | 0       | 0       | 1       | 0        | 1     |
| DENTISTRY       | 1                          | 0       | 0       | 0       | 1       | 1        | 3     |
| DERMATOLOGY     | 0                          | 0       | 0       | 1       | 0       | 2        | 4     |
| ENDCCRINOLOGY   | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| GASTROENTEROLOG | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| GERIATRICS      | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| HEMATOLOGY      | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| HEMODIALYSIS    | 0                          | 0       | 0       | 0       | 1       | 0        | 1     |
| HYPERTENSION    | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| KIDNEY          | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| NUCLEAR MED     | 0                          | 0       | 0       | 0       | 1       | 1        | 2     |
| ONCOLOGY        | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| PATHOLOGY       | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| PRUCTOLOGY      | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| TB              | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| VENERAL DIS     | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| ORAL SURGERY    | 0                          | 0       | 0       | 1       | 0       | 1        | 2     |
| PLASTIC SURGERY | 0                          | 0       | 1       | 0       | 0       | 1        | 2     |
| THORACIC SURGER | 0                          | 0       | 1       | 1       | 0       | 1        | 3     |
| VASCULAR SURGER | 0                          | 0       | 1       | 1       | 0       | 0        | 2     |
| MENTAL RETARD   | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |

## EXPERIMENTAL POPULATION 2

TABLE 9

| BED INCREMENTS  | ORGANIZED MEDICAL SERVICES |         |         |         |         |          | TOTAL |
|-----------------|----------------------------|---------|---------|---------|---------|----------|-------|
|                 | 25-100                     | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| MEDICINE        | 1                          | 2       | 1       | 0       | 2       | 1        | 7     |
| INTERNAL MED    | 1                          | 2       | 0       | 0       | 1       | 2        | 6     |
| SURGERY         | 1                          | 0       | 1       | 0       | 2       | 2        | 6     |
| PEDIATRICS      | 0                          | 0       | 1       | 0       | 0       | 0        | 1     |
| OBSTETRICS      | 1                          | 0       | 0       | 0       | 0       | 0        | 1     |
| PATHOLOGY       | 1                          | 0       | 1       | 0       | 1       | 2        | 5     |
| RADIOLOGY       | 1                          | 1       | 1       | 0       | 1       | 2        | 6     |
| ANESTHESIOLOG   | 1                          | 0       | 1       | 0       | 2       | 1        | 5     |
| PSYCHIATRY      | 1                          | 0       | 0       | 1       | 1       | 2        | 5     |
| NEUROLOGY       | 1                          | 0       | 1       | 0       | 1       | 2        | 5     |
| NEUROSURGERY    | 0                          | 0       | 0       | 0       | 0       | 1        | 1     |
| OPHTHALMOLOGY   | 0                          | 0       | 0       | 0       | 0       | 2        | 2     |
| OTOLARYNGOLOGY  | 0                          | 0       | 0       | 0       | 1       | 1        | 2     |
| ORTHOPEDICS     | 0                          | 0       | 1       | 0       | 1       | 1        | 3     |
| GYNECOLOGY      | 2                          | 0       | 0       | 0       | 2       | 0        | 2     |
| CONTAGIOUS DIS  | 0                          | 1       | 0       | 0       | 0       | 1        | 2     |
| UROLOGY         | 0                          | 0       | 1       | 0       | 1       | 1        | 3     |
| BLANK           | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| GP              | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| OUTPATIENT CL   | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| PHYSICAL MED    | 0                          | 0       | 0       | 0       | 1       | 0        | 1     |
| REHABILITATION  | 1                          | 0       | 0       | 0       | 1       | 1        | 3     |
| ALLERGY         | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| ARTHRITIS       | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| CARDIOLOG       | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| CHEST           | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| DENTISTRY       | 0                          | 0       | 0       | 0       | 1       | 1        | 2     |
| DERMATOLOGY     | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| ENDOCRINOLOGY   | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| GASTROENTEROLOG | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| GERIATRICS      | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| HEMATOLOGY      | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| HEMODIALYSIS    | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| HYPERTENSION    | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| KIDNEY          | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| NUCLEAR MED     | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| ONCLOGY         | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| PATHOLOGY       | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| PROCTOLOGY      | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| TB              | 1                          | 1       | 0       | 0       | 0       | 0        | 2     |
| VENERAL DIS     | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| ORAL SURGERY    | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| PLASTIC SURGERY | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| THORACIC SURGER | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| VASCULAR SURGER | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |
| MENTAL RETARD   | 0                          | 0       | 0       | 0       | 0       | 0        | 0     |

## TOTAL POPULATION

TABLE 10

| BED INCREMENTS  | TOTAL HOSPITAL PERSONNEL |         |         |         |         |          | TOTAL |
|-----------------|--------------------------|---------|---------|---------|---------|----------|-------|
|                 | 25-100                   | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| ADMINISTRATIVE  | 245                      | 328     | 477     | 450     | 389     | 1128     | 3017  |
| DIETARY         | 294                      | 452     | 515     | 492     | 553     | 1575     | 3841  |
| NURSE EDUCATION | 6                        | 16      | 52      | 49      | 108     | 244      | 475   |
| MAINTENANCE     | 323                      | 470     | 722     | 642     | 767     | 2231     | 5155  |
| DIRECT PATIENT  | 1532                     | 2052    | 3285    | 3253    | 2932    | 10690    | 23744 |
| TOTAL PERSONNEL | 2325                     | 3331    | 5077    | 4936    | 4972    | 15640    | 36281 |



EXPERIMENTAL POPULATION 1

TABLE 11

| BED INCREMENTS  | TOTAL HOSPITAL PERSONNEL |         |         |         |         |          | TOTAL |
|-----------------|--------------------------|---------|---------|---------|---------|----------|-------|
|                 | 25-100                   | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| ADMINISTRATIVE  | 159                      | 313     | 414     | 450     | 397     | 1120     | 2021  |
| DIETARY         | 176                      | 416     | 439     | 492     | 476     | 1979     | 3974  |
| NURSE EDUCATION | 3                        | 16      | 40      | 40      | 100     | 244      | 460   |
| MAINTENANCE     | 180                      | 406     | 629     | 642     | 678     | 2231     | 4766  |
| DIRECT PATIENT  | 950                      | 1940    | 2963    | 3253    | 2664    | 10690    | 22460 |
| TOTAL PERSONNEL | 1484                     | 3106    | 4909    | 4936    | 4906    | 15640    | 34181 |

EXPERIMENTAL POPULATION 2

TABLE 12

| BED INCREMENTS  | TOTAL HOSPITAL PERSONNEL |         |         |         |         |          | TOTAL |
|-----------------|--------------------------|---------|---------|---------|---------|----------|-------|
|                 | 25-100                   | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| ADMINISTRATIVE  | 86                       | 15      | 63      | 0       | 32      | 0        | 196   |
| DIETARY         | 78                       | 36      | 76      | 0       | 77      | 0        | 267   |
| NURSE EDUCATION | 3                        | 0       | 12      | 0       | 0       | 0        | 15    |
| MAINTENANCE     | 143                      | 64      | 93      | 0       | 89      | 0        | 389   |
| DIRECT PATIENT  | 582                      | 112     | 322     | 0       | 268     | 0        | 1284  |
| TOTAL PERSONNEL | 841                      | 225     | 568     | 0       | 466     | 0        | 2100  |

## TOTAL POPULATION

TABLE 13

| BED INCREMENTS         | PERSONNEL IN DIRECT PATIENT CARE |         |         |         |         |          | TOTAL |
|------------------------|----------------------------------|---------|---------|---------|---------|----------|-------|
|                        | 25-100                           | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| MEDICAL-SURGICAL       | 56                               | 66      | 93      | 174     | 180     | 975      | 1544  |
| NURSING                | 807                              | 1351    | 1812    | 1738    | 1595    | 5887     | 13190 |
| OPERATING              | 69                               | 163     | 220     | 165     | 178     | 578      | 1373  |
| DELIVERY               | 68                               | 63      | 117     | 119     | 83      | 327      | 777   |
| NURSERY                | 13                               | 33      | 140     | 137     | 94      | 395      | 812   |
| RADIOLOGY              | 53                               | 124     | 180     | 152     | 161     | 513      | 1183  |
| LABORATORY             | 73                               | 156     | 271     | 252     | 269     | 934      | 1955  |
| BLOOD BANK             | 1                                | 6       | 11      | 13      | 10      | 76       | 117   |
| ELECTROCARDIOGRAPH     | 15                               | 13      | 26      | 18      | 21      | 71       | 164   |
| ELECTROENCEPHALOGRAPHY | 0                                | 1       | 6       | 1       | 6       | 40       | 54    |
| PHARMACY               | 17                               | 24      | 34      | 37      | 32      | 152      | 296   |
| ANESTHESIOLOGY         | 13                               | 5       | 6       | 9       | 14      | 125      | 172   |
| CENTRAL SUPPLY         | 35                               | 57      | 116     | 120     | 110     | 377      | 815   |
| MEDICAL RECORDS        | 38                               | 64      | 91      | 88      | 92      | 261      | 634   |
| SOCIAL SERVICE         | 4                                | 1       | 3       | 6       | 19      | 113      | 146   |
| EMERGENCY              | 24                               | 40      | 119     | 106     | 79      | 272      | 640   |
| PHYSICAL MEDICINE      | 12                               | 20      | 35      | 36      | 75      | 134      | 312   |
| DENTAL                 | 12                               | 2       | 0       | 0       | 13      | 20       | 47    |
| MEDICAL LIBRARY        | 3                                | 2       | 3       | 7       | 4       | 59       | 78    |
| OUTPATIENT             | 1                                | 0       | 29      | 24      | 96      | 221      | 371   |
| PSYCHIATRY             | 40                               | 0       | 15      | 29      | 29      | 171      | 284   |

## EXPERIMENTAL POPULATION 1

TABLE 14

## PERSONNEL IN DIRECT PATIENT CARE

| BED INCREMENTS   | 25-100 | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 | TOTAL |
|------------------|--------|---------|---------|---------|---------|----------|-------|
| MEDICAL-SURGICAL | 41     | 64      | 92      | 120     | 180     | 962      | 1467  |
| NURSING          | 585    | 1315    | 1657    | 1467    | 1595    | 5476     | 12095 |
| OPERATING        | 50     | 163     | 186     | 139     | 178     | 545      | 1261  |
| DELIVERY         | 29     | 63      | 117     | 104     | 83      | 318      | 714   |
| NURSERY          | 10     | 33      | 140     | 120     | 94      | 380      | 777   |
| RADIOLOGY        | 47     | 122     | 144     | 134     | 161     | 490      | 1098  |
| LABORATORY       | 52     | 154     | 223     | 210     | 289     | 887      | 1795  |
| BLOOD BANK       | 0      | 6       | 11      | 10      | 10      | 74       | 111   |
| ELECTROCARDIOGR  | 13     | 13      | 22      | 15      | 21      | 67       | 151   |
| ELECTROENCEPHAL  | 0      | 1       | 4       | 1       | 6       | 38       | 50    |
| PHARMACY         | 9      | 23      | 28      | 30      | 32      | 139      | 261   |
| ANESTHESIOLOGY   | 7      | 5       | 5       | 2       | 14      | 122      | 155   |
| CENTRA SUPPLY    | 22     | 56      | 104     | 100     | 110     | 356      | 748   |
| MEDICAL RECORDS  | 29     | 62      | 78      | 78      | 92      | 240      | 579   |
| SOCIAL SERVICE   | 0      | 1       | 2       | 6       | 19      | 112      | 140   |
| EMERGENCY        | 16     | 40      | 119     | 98      | 79      | 254      | 606   |
| PHYSICAL MEDICI  | 3      | 20      | 31      | 30      | 75      | 129      | 288   |
| DENTAL           | 12     | 1       | 0       | 0       | 13      | 20       | 46    |
| MEDICAL LIBRARY  | 0      | 1       | 2       | 5       | 4       | 58       | 70    |
| OUT PATIENT      | 0      | 0       | 5       | 17      | 96      | 216      | 334   |
| PSYCHIATRY       | 0      | 0       | 15      | 29      | 29      | 147      | 220   |

## EXPERIMENTAL POPULATION 2

TABLE 15

| BED INCREMENTS    | PERSONNEL IN DIRECT PATIENT CARE |         |         |         |         |          | TOTAL |
|-------------------|----------------------------------|---------|---------|---------|---------|----------|-------|
|                   | 25-100                           | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| MEDICAL-SURGICAL  | 15                               | 2       | 1       | 46      | 0       | 13       | 77    |
| NURSING           | 222                              | 36      | 155     | 271     | 0       | 411      | 1095  |
| OPERATING         | 19                               | 0       | 34      | 26      | 0       | 33       | 112   |
| DELIVERY          | 39                               | 0       | 0       | 19      | 0       | 9        | 63    |
| NURSERY           | 3                                | 0       | 0       | 17      | 0       | 15       | 35    |
| RADIOLOGY         | 6                                | 2       | 16      | 18      | 0       | 23       | 65    |
| LABORATORY        | 21                               | 2       | 48      | 42      | 0       | 47       | 160   |
| BLOOD BANK        | 1                                | 0       | 0       | 3       | 0       | 2        | 6     |
| ELECTROCARDIOGR   | 2                                | 0       | 4       | 3       | 0       | 4        | 13    |
| ELECTROENCEPHAL   | 0                                | 0       | 2       | 0       | 0       | 2        | 4     |
| PHARMACY          | 8                                | 1       | 6       | 7       | 0       | 13       | 35    |
| ANESTHESIOLOGY    | 6                                | 0       | 1       | 7       | 0       | 3        | 17    |
| CENTRA SUPPLY     | 13                               | 1       | 12      | 20      | 0       | 21       | 67    |
| MEDICAL RECORDS   | 9                                | 2       | 13      | 10      | 0       | 21       | 55    |
| SOCIAL SERVICE    | 4                                | 0       | 1       | 0       | 0       | 1        | 6     |
| EMERGENCY         | 8                                | 0       | 0       | 8       | 0       | 18       | 34    |
| PHYSICAL MEDICINE | 9                                | 0       | 4       | 6       | 0       | 9        | 24    |
| DENTAL            | 0                                | 1       | 0       | 0       | 0       | 0        | 1     |
| MEDICAL LIBRARY   | 3                                | 1       | 1       | 2       | 0       | 1        | 8     |
| OUT PATIENT       | 1                                | 0       | 24      | 7       | 0       | 9        | 37    |
| PSYCHIATRY        | 40                               | 0       | 0       | 0       | 0       | 24       | 64    |

| TOTAL POPULATION |                       | TABLE 16 |         |         |         |          |       |
|------------------|-----------------------|----------|---------|---------|---------|----------|-------|
| BED INCREMENTS   | ALL TRAINING PROGRAMS |          |         |         |         |          | TOTAL |
|                  | 25-100                | 101-175  | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| NURSING          | 1                     | 0        | 3       | 2       | 6       | 11       | 23    |
| INTERN           | 2                     | 1        | 3       | 6       | 6       | 11       | 29    |
| RESIDENCY        | 2                     | 3        | 9       | 6       | 8       | 11       | 39    |
| CYTOTECHNOLOG    | 0                     | 0        | 1       | 1       | 0       | 5        | 7     |
| DIETETICS        | 0                     | 0        | 0       | 1       | 0       | 3        | 4     |
| INHALATION THER  | 0                     | 0        | 0       | 0       | 1       | 1        | 2     |
| MEDICAL RECORDS  | 0                     | 0        | 0       | 0       | 1       | 1        | 2     |
| MED TECHNOLOG    | 1                     | 1        | 2       | 3       | 4       | 10       | 21    |
| HOSPITAL ADMIN   | 0                     | 0        | 0       | 0       | 0       | 4        | 4     |
| NURSE ANESTHETI  | 0                     | 0        | 0       | 0       | 0       | 1        | 1     |
| MOS PHARMACY     | 0                     | 0        | 0       | 0       | 0       | 3        | 3     |
| X RAY TECH       | 0                     | 0        | 3       | 3       | 3       | 11       | 20    |
| PRACTICAL NURSE  | 0                     | 1        | 7       | 6       | 4       | 9        | 27    |

## EXPERIMENTAL POPULATION 1

TABLE 17

| BED INCREMENTS  | ALL TRAINING PROGRAMS |         |         |         |         |          | TOTAL |
|-----------------|-----------------------|---------|---------|---------|---------|----------|-------|
|                 | 25-100                | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| NURSING         | 1                     | 0       | 3       | 1       | 6       | 10       | 21    |
| INTERN          | 2                     | 1       | 2       | 9       | 6       | 10       | 26    |
| RESIDENCY       | 1                     | 3       | 4       | 9       | 7       | 10       | 30    |
| CYTOTECHNOLOG   | 0                     | 0       | 1       | 1       | 0       | 9        | 7     |
| DIETETICS       | 0                     | 0       | 0       | 1       | 0       | 2        | 3     |
| INHALATION THER | 0                     | 0       | 0       | 0       | 1       | 1        | 2     |
| MEDICAL RECORDS | 0                     | 0       | 0       | 0       | 1       | 0        | 1     |
| MED TECHNOLOG   | 1                     | 1       | 1       | 2       | 4       | 9        | 18    |
| HOSPITAL ADMIN  | 0                     | 0       | 0       | 0       | 0       | 4        | 4     |
| NURSE ANESTHETI | 0                     | 0       | 0       | 0       | 0       | 1        | 1     |
| HOS PHARMACY    | 0                     | 0       | 0       | 0       | 0       | 3        | 3     |
| X RAY TECH      | 0                     | 0       | 2       | 0       | 3       | 10       | 17    |
| PRACTICAL NURSE | 0                     | 1       | 6       | 9       | 4       | 0        | 24    |



## EXPERIMENTAL POPULATION 2

TABLE 18

| BED INCREMENTS  | ALL TRAINING PROGRAMS |         |         |         |         |          | TOTAL |
|-----------------|-----------------------|---------|---------|---------|---------|----------|-------|
|                 | 25-100                | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| NURSING         | 0                     | 0       | 0       | 1       | 0       | 1        | 2     |
| INTERN          | 0                     | 0       | 1       | 1       | 0       | 1        | 3     |
| RESIDENCY       | 1                     | 0       | 1       | 1       | 1       | 1        | 5     |
| CYTOTECHNOLOG   | 0                     | 0       | 0       | 0       | 0       | 0        | 0     |
| DIETETICS       | 0                     | 0       | 0       | 0       | 0       | 1        | 1     |
| INHALATION THER | 0                     | 0       | 0       | 0       | 0       | 0        | 0     |
| MEDICAL RECORDS | 0                     | 0       | 0       | 0       | 0       | 1        | 1     |
| MED TECHNOLOG   | 0                     | 0       | 1       | 1       | 0       | 1        | 3     |
| HOSPITAL ADMIN  | 0                     | 0       | 0       | 0       | 0       | 0        | 0     |
| NURSE ANESTHETI | 0                     | 0       | 0       | 0       | 0       | 0        | 0     |
| MOS PHARMACY    | 0                     | 0       | 0       | 0       | 0       | 0        | 0     |
| X RAY TECH      | 0                     | 0       | 1       | 1       | 0       | 1        | 3     |
| PRACTICAL NURSE | 0                     | 0       | 1       | 1       | 0       | 1        | 3     |

## TOTAL POPULATION

TABLE 19

| BED INCREMENTS   | INTERNSHIPS AND RESIDENCIES |         |         |         |         |          | TOTAL |
|------------------|-----------------------------|---------|---------|---------|---------|----------|-------|
|                  | 25-100                      | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| TOTAL, INTERNS   | 9                           | 11      | 34      | 84      | 63      | 268      | 469   |
| ROTATING         | 9                           | 11      | 30      | 80      | 63      | 157      | 350   |
| STRAIGHT         | 0                           | 0       | 4       | 2       | 0       | 111      | 117   |
| TOTAL, RESIDENCY | 15                          | 22      | 71      | 154     | 162     | 954      | 1378  |
| GP               | 0                           | 14      | 18      | 34      | 21      | 10       | 97    |
| MEDICINE         | 3                           | 0       | 3       | 28      | 20      | 242      | 296   |
| OB-GYN           | 4                           | 0       | 0       | 12      | 12      | 67       | 95    |
| ORTHOPEDICS      | 0                           | 0       | 4       | 0       | 3       | 41       | 48    |
| PATHOLOGY        | 0                           | 0       | 3       | 10      | 17      | 80       | 110   |
| RADIOLOGY        | 2                           | 0       | 1       | 3       | 3       | 60       | 69    |
| SURGERY          | 3                           | 1       | 10      | 32      | 50      | 142      | 238   |
| UROLOGY          | 0                           | 0       | 0       | 0       | 3       | 21       | 24    |
| PEDIATRICS       | 1                           | 0       | 18      | 4       | 4       | 44       | 71    |
| ANESTHESIA       | 2                           | 7       | 10      | 7       | 11      | 48       | 85    |
| DERMATOLOG       | 0                           | 0       | 0       | 0       | 0       | 15       | 15    |
| NEUROSURGY       | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| TB               | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| OPHTHALMOLOG     | 0                           | 0       | 0       | 0       | 0       | 23       | 23    |
| OTOLOGY          | 0                           | 0       | 0       | 0       | 0       | 77       | 77    |
| PMR              | 0                           | 0       | 0       | 0       | 0       | 33       | 33    |
| PLASTIC SURGERY  | 0                           | 0       | 0       | 0       | 0       | 4        | 4     |
| PSYCHIATRY       | 0                           | 0       | 0       | 24      | 0       | 32       | 56    |
| FORENSIC PATH    | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| NEUROLOGY        | 0                           | 0       | 0       | 0       | 0       | 27       | 27    |
| THORATIC SURG    | 0                           | 0       | 0       | 0       | 0       | 13       | 13    |
| OTOLARYNGOLOGY   | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| OCCUPATIONAL MD  | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |

TABLE 20

## EXPERIMENTAL POPULATION 1

| BED INCREMENTS   | INTERNSHIPS AND RESIDENCIES |         |         |         |         |          | TOTAL |
|------------------|-----------------------------|---------|---------|---------|---------|----------|-------|
|                  | 25-100                      | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| TOTAL, INTERNS   | 9                           | 11      | 30      | 84      | 63      | 268      | 465   |
| ROTATING         | 9                           | 11      | 30      | 80      | 63      | 157      | 390   |
| STRAIGHT         | 0                           | 0       | 0       | 2       | 0       | 111      | 113   |
| TOTAL, RESIDENCY | 11                          | 22      | 44      | 130     | 156     | 904      | 1267  |
| GP               | 0                           | 14      | 10      | 34      | 21      | 10       | 97    |
| MEDICINE         | 3                           | 0       | 3       | 28      | 14      | 201      | 249   |
| OB-GYN           | 0                           | 0       | 0       | 12      | 12      | 67       | 91    |
| ORTHOPEDICS      | 0                           | 0       | 0       | 0       | 3       | 41       | 44    |
| PATHOLOGY        | 0                           | 0       | 2       | 10      | 17      | 74       | 103   |
| RADIOLOGY        | 2                           | 0       | 1       | 3       | 3       | 60       | 69    |
| SURGERY          | 3                           | 1       | 10      | 32      | 50      | 142      | 238   |
| UROLOGY          | 0                           | 0       | 0       | 0       | 3       | 21       | 24    |
| PEDIATRICS       | 1                           | 0       | 0       | 4       | 4       | 44       | 53    |
| ANESTHESIA       | 2                           | 7       | 10      | 7       | 11      | 48       | 85    |
| DERMATOLOG       | 0                           | 0       | 0       | 0       | 0       | 15       | 15    |
| NEUROSURGY       | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| TB               | 0                           | 0       | 0       | 0       | 0       | 23       | 23    |
| OPHTHALMOLOG     | 0                           | 0       | 0       | 0       | 0       | 77       | 77    |
| OTOLOGY          | 0                           | 0       | 0       | 0       | 0       | 33       | 33    |
| PMR              | 0                           | 0       | 0       | 0       | 0       | 4        | 4     |
| PLASTIC SURGERY  | 0                           | 0       | 0       | 0       | 0       | 32       | 32    |
| PSYCHIATRY       | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| FORENSIC PATH    | 0                           | 0       | 0       | 0       | 0       | 27       | 27    |
| NEUROLOGY        | 0                           | 0       | 0       | 0       | 0       | 13       | 13    |
| THORATIC SURG    | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| OTO-LARYNGOLOGY  | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| OCCUPATIONAL MD  | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |

## EXPERIMENTAL POPULATION 2

TABLE 21

| BED INCREMENTS   | INTERNSHIPS AND RESIDENCIES |         |         |         |         |          | TOTAL |
|------------------|-----------------------------|---------|---------|---------|---------|----------|-------|
|                  | 25-100                      | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| TOTAL, INTERNS   | 0                           | 0       | 4       | 0       | 0       | 0        | 4     |
| ROTATING         | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| STRAIGHT         | 0                           | 0       | 4       | 0       | 0       | 0        | 4     |
| TOTAL, RESIDENCY | 4                           | 0       | 27      | 24      | 6       | 50       | 111   |
| GP               | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| MEDICINE         | 0                           | 0       | 0       | 0       | 6       | 41       | 47    |
| OB-GYN           | 4                           | 0       | 0       | 0       | 0       | 0        | 4     |
| ORTHOPEDICS      | 0                           | 0       | 4       | 0       | 0       | 0        | 4     |
| PATHOLOGY        | 0                           | 0       | 1       | 0       | 0       | 6        | 7     |
| RADIOLOGY        | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| SURGERY          | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| UROLOGY          | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| PEDIATRICS       | 0                           | 0       | 18      | 0       | 0       | 0        | 18    |
| ANESTHESIA       | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| DERMATOLOG       | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| NEUROSURGY       | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| TB               | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| OPHTHALMOLOG     | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| OTOLOGY          | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| PMR              | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| PLASTIC SURGERY  | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| PSYCHIATRY       | 0                           | 0       | 0       | 24      | 0       | 0        | 24    |
| FORENSIC PATH    | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| NEUROLOGY        | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| THORATIC SURG    | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| OTOLARYNGOLOGY   | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |
| OCCUPATIONAL MD  | 0                           | 0       | 0       | 0       | 0       | 0        | 0     |

## TOTAL POPULATION

TABLE 22

| BED INCREMENTS  | AREAS OF RESEARCH |         |         |         |         |          | TOTAL |
|-----------------|-------------------|---------|---------|---------|---------|----------|-------|
|                 | 25-100            | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| ADMINISTRATIVE  | 0                 | 0       | 0       | 0       | 0       | 2        | 2     |
| BIOMEDICAL      | 0                 | 0       | 1       | 0       | 0       | 2        | 3     |
| CARDIOVASCULAR  | 0                 | 0       | 1       | 0       | 0       | 7        | 11    |
| CLINICAL PHARM  | 0                 | 0       | 0       | 0       | 3       | 2        | 2     |
| CON TISSUE REAC | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| DIABETICS       | 0                 | 0       | 0       | 0       | 0       | 2        | 2     |
| DIGESTIVE SYSTE | 0                 | 0       | 0       | 0       | 0       | 2        | 2     |
| ENDOCRINOLOGY   | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| GENETICS        | 0                 | 0       | 0       | 2       | 0       | 2        | 4     |
| GERIATRICS      | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| HEMATOLOGY      | 0                 | 0       | 0       | 0       | 1       | 4        | 5     |
| IMMUNOLOGY      | 0                 | 0       | 0       | 0       | 0       | 3        | 3     |
| INFECTIOUS DIS  | 0                 | 0       | 0       | 0       | 0       | 3        | 3     |
| METABOLISM      | 0                 | 0       | 0       | 0       | 0       | 4        | 4     |
| MUSCULAR SYSTEM | 0                 | 0       | 0       | 0       | 0       | 2        | 2     |
| NEOPLASMS       | 0                 | 0       | 0       | 0       | 0       | 2        | 2     |
| NEPHROLOGY      | 0                 | 0       | 0       | 1       | 3       | 2        | 6     |
| NEUROLOGY       | 0                 | 0       | 0       | 0       | 2       | 3        | 5     |
| NUCLEAR MEDICIN | 0                 | 0       | 0       | 1       | 0       | 3        | 4     |
| NURSING         | 0                 | 0       | 0       | 0       | 0       | 2        | 2     |
| NUTRITION       | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| OB-GYN          | 1                 | 0       | 0       | 1       | 1       | 1        | 3     |
| PATHOLOGY       | 0                 | 0       | 0       | 0       | 0       | 1        | 2     |
| PEDIATRICS      | 0                 | 0       | 0       | 0       | 0       | 2        | 2     |
| PULMONARY SYS   | 0                 | 0       | 1       | 1       | 0       | 2        | 3     |
| REHABILITATION  | 0                 | 0       | 0       | 0       | 0       | 3        | 4     |
| RHEUMATOLOGY    | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| SURGERY         | 0                 | 0       | 0       | 1       | 0       | 1        | 2     |
| SURGERY, HAND   | 0                 | 0       | 0       | 1       | 0       | 2        | 3     |
| PSYCHIATRY      | 0                 | 0       | 0       | 0       | 1       | 0        | 1     |
| UNSPECIED       | 0                 | 0       | 0       | 1       | 0       | 3        | 4     |

## EXPERIMENTAL POPULATION 1

TABLE 23

| BED INCREMENTS   | AREAS OF RESEARCH |         |         |         |         |          | TOTAL |
|------------------|-------------------|---------|---------|---------|---------|----------|-------|
|                  | 25-100            | 101-175 | 176-250 | 251-325 | 326-400 | OVER 401 |       |
| ADMINISTRATIVE   | 0                 | 0       | 0       | 0       | 0       | 2        | 2     |
| BIOMEDICAL       | 0                 | 0       | 1       | 0       | 0       | 1        | 2     |
| CARDIOVASCULAR   | 0                 | 0       | 1       | 0       | 2       | 6        | 9     |
| CLINICAL PHARM   | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| CON. TISSUE REAC | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| DIABETICS        | 0                 | 0       | 0       | 0       | 0       | 2        | 2     |
| DIGESTIVE SYSTE  | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| ENDOCRINOLOGY    | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| GENETICS         | 0                 | 0       | 0       | 1       | 0       | 2        | 3     |
| GERIATRICS       | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| HEMATOLOGY       | 0                 | 0       | 0       | 0       | 1       | 3        | 4     |
| IMMUNOLOGY       | 0                 | 0       | 0       | 0       | 0       | 2        | 2     |
| INFECTIOUS DIS   | 0                 | 0       | 0       | 0       | 0       | 2        | 2     |
| METABOLISM       | 0                 | 0       | 0       | 0       | 0       | 3        | 3     |
| MUSCULAR SYSTEM  | 0                 | 0       | 0       | 0       | 0       | 2        | 2     |
| NEOPLASMS        | 0                 | 0       | 0       | 1       | 2       | 1        | 4     |
| NEPHROLOGY       | 0                 | 0       | 0       | 0       | 1       | 3        | 4     |
| NEUROLOGY        | 0                 | 0       | 0       | 0       | 0       | 2        | 2     |
| NUCLEAR MEDICIN  | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| NURSING          | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| NUTRITION        | 0                 | 0       | 0       | 1       | 0       | 1        | 2     |
| OB-GYN           | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| PATHOLOGY        | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| PEDIATRICS       | 0                 | 0       | 0       | 1       | 0       | 2        | 3     |
| PULMONARY SYS    | 0                 | 0       | 1       | 0       | 0       | 2        | 3     |
| REHABILITATION   | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| RHEUMATOLOGY     | 0                 | 0       | 0       | 1       | 0       | 1        | 2     |
| SURGERY          | 0                 | 0       | 0       | 1       | 0       | 1        | 2     |
| SURGERY, HAND    | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| PSYCHIATRY       | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| UNSPECIFD        | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |

## EXPERIMENTAL POPULATION 2

TABLE 24

| NEW INCREMENTS   | AREAS OF RESEARCH |         |         |         |         | OVER 401 | TOTAL |
|------------------|-------------------|---------|---------|---------|---------|----------|-------|
|                  | 25-100            | 101-175 | 176-250 | 251-325 | 326-400 |          |       |
| ADMINISTRATIVE   | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| BIOMEDICAL       | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| CARDIOVASCULAR   | 0                 | 0       | 0       | 0       | 1       | 1        | 2     |
| CLINICAL PHARM   | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| CON. TISSUE REAC | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| DIABETICS        | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| DIGESTIVE SYSTE  | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| ENDOCRINOLOGY    | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| GENETICS         | 0                 | 0       | 0       | 1       | 0       | 0        | 1     |
| GERIATRICS       | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| HEMATOLOGY       | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| IMMUNOLOGY       | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| INFECTIOUS DIS   | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| METABOLISM       | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| MUSCULAR SYSTEM  | 0                 | 0       | 0       | 0       | 1       | 1        | 2     |
| NEOPLASMS        | 0                 | 0       | 0       | 0       | 1       | 0        | 1     |
| NEPHROLOGY       | 0                 | 0       | 0       | 0       | 1       | 1        | 2     |
| NEUROLOGY        | 0                 | 0       | 0       | 1       | 0       | 1        | 2     |
| NUCLEAR MEDICIN  | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| NURSING          | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| NUTRITION        | 0                 | 0       | 0       | 0       | 1       | 0        | 1     |
| OB-GYN           | 1                 | 0       | 0       | 0       | 0       | 0        | 1     |
| PATHOLOGY        | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| PEUJATRICS       | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| PULMONARY SYS    | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| REHABILITATION   | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| RHEUMATOLOGY     | 0                 | 0       | 0       | 0       | 0       | 1        | 1     |
| SURGERY          | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |
| SURGERY, HAND    | 0                 | 0       | 0       | 0       | 1       | 0        | 1     |
| PSYCHIATRY       | 0                 | 0       | 0       | 1       | 0       | 0        | 1     |
| UNSPECIED        | 0                 | 0       | 0       | 0       | 0       | 0        | 0     |



## Chapter III

### DATA DESCRIBING FUNCTIONAL HOSPITAL MEDICAL LIBRARIES WITHIN NORTHEASTERN OHIO REGIONAL MEDICAL PROGRAM

#### A. Sources and Organization of the Data

This chapter focusses on the funding, organization and operation of those hospital medical libraries within NEORMP identified as functional.\* Of the 73 hospitals surveyed within the RMP, 50 hospital libraries were identified as functional and 23 as non-functional. The largest concentration of functional libraries (28) occurs in Cuyahoga county, and all hospital libraries in Medina, Portage and Summit counties were identified as functional. Table 25 indicates the percentage of functional and non-functional hospital libraries in each county.

The data summarized in the following tables were obtained through a direct questionnaire survey sent to the person in charge of each functional library.\*\* The name of this person had been obtained through a previous questionnaire directed to the hospital's administrator. Forty-four responses were received providing an 86% rate of return. Whenever appropriate, both the raw data and the relative frequencies are presented.

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\*Libraries are labeled as functional if they reported personnel actually performing library tasks and as non-functional if they reported an administrator, DME or staff member as having responsibility for the library, but reported no person actually involved in library tasks. (See Interim Report No. 2, for a detailed description of this classification.)

\*\*See Interim Report No. 1 for the Medical Library Questionnaire.

**B. Tables**

Tables 26 and 27 deal with the funding and expenditures of functional libraries. The relationship of departmental book collections to the hospital's main medical library is explored in Table 28 and 29, and the reported procedures for purchasing new library materials is summarized in Table 30. The demand for various library services, the effect of hospital-based educational and research programs on the library and the library usage habits of categories of hospital personnel are presented in Tables 31, 32 and 33. Tables 34 summarizes circulation policies referring to reference books and to journals. The composition, organization and authority of the library committees of functional libraries are indicated in Tables 35, 36, 37 and 38.

TABLE 25

DISTRIBUTION OF FUNCTIONAL AND  
NON-FUNCTIONAL HOSPITAL MEDICAL  
LIBRARIES IN NEORMP.

| County     | Functional | Non-functional |
|------------|------------|----------------|
| Ashtabula  | 67%        | 33%            |
| Columbiana | --         | 100%           |
| Cuyahoga   | 78%        | 22%            |
| Geauga     | --         | 100%           |
| Lake       | 50%        | 50%            |
| Lorain     | 80%        | 20%            |
| Mahoning   | 50%        | 50%            |
| Medina     | 100%       | --             |
| Portage    | 100%       | --             |
| Stark      | 60%        | 40%            |
| Summit     | 100%       | --             |
| Trumbull   | 40%        | 60%            |



TABLE 27

TOTAL REPORTED EXPENDITURES BY ALL RESPONDING FUNCTIONAL  
HOSPITAL LIBRARIES IN NEORMP FOR 1966-67

| Budget Item                  | Total Expenditures |
|------------------------------|--------------------|
| Salaries                     | \$227,321.         |
| Books                        | 47,279.            |
| Journals                     | 52,984.            |
| Binding/Maintenance          | 21,011.            |
| A-V Materials/Equip-<br>ment | 1,246.             |
| Membership Fees              | 2,230.             |
| Inter-Library Loan<br>Fees   | 180.               |
| Photocopying                 | 2,575.             |
| Library Supplies             | 6,244.             |
| Travel                       | 2,065.             |
| TOTAL                        | \$363,135.         |

TABLE 28

THE RELATIONSHIP OF DEPARTMENTAL BOOK COLLECTIONS REPORTED BY  
HOSPITALS WITH FUNCTIONAL LIBRARIES IN NEORMP,  
TO THE MAIN MEDICAL LIBRARY

| Item  | Response <sup>1</sup> |          |           |
|---|-----------------------|----------|-----------|
|   | Yes                   | No       | Not Given |
| 1. Are book collections <sup>2</sup> maintained by various Medical Departments (or Services) in the hospital apart from the main medical library? | 27 (63%)              | 10 (23%) | 7 (14%)   |
| 2. Are medical library funds used to support Medical Departments (or Services) book collections?  | 7 (16%)               | 32 (74%) | 5 (10%)   |
| 3. Are book collections for these Medical Departments (or Services) processed through the main medical library?                                   | 13 (30%)              | 26 (61%) | 5 (9%)    |
| 4. Are catalogue cards filed in the main Medical Library for items located in these Medical Departments (Service) collections?                    | 13 (30%)              | 25 (58%) | 6 (12%)   |

<sup>1</sup>Figures in parenthesis are relative frequencies based on the total number of reporting functional libraries (44).

<sup>2</sup>A list of the Medical Services reporting book collections appears in Table 6.

TABLE 29

LISTING OF DEPARTMENTS POSSESSING BOOK COLLECTION AS  
REPORTED BY HOSPITALS WITH FUNCTIONAL LIBRARIES IN NEORMP

| Medical Department (Service) | Frequency |
|------------------------------|-----------|
| Biochemistry                 | 1 (2%)*   |
| Cardiology                   | 1 (2%)    |
| Laboratory, Pathology        | 14 (33%)  |
| Medicine                     | 3 (7%)    |
| Nursing                      | 6 (14%)   |
| OBGYN                        | 4 (9%)    |
| Pediatrics                   | 1 (2%)    |
| Pharmacology                 | 1 (2%)    |
| Psychiatric Services         | 4 (9%)    |
| Research Department          | 6 (14%)   |
| Therapy                      | 3 (7%)    |
| X-ray                        | 11 (26%)  |

\*Figures in parenthesis are relative frequencies based on  
the total number of reporting functional libraries (44).

TABLE 30

PROCEDURE FOR THE PURCHASE OF LIBRARY MATERIALS  
IN REPORTING FUNCTIONAL HOSPITAL LIBRARIES IN NEORMP

| ITEM  | RESPONSES   |
|---|---|
| 1. Who recommends new acquisitions for the main medical library collection? | a) Chiefs of Staff 22(51%)*<br>b) Library Committee 28(65%)<br>c) Librarian 18(42%)<br>d) Staff 19(44%) |
| 2. Who decides whether or not the recommended acquisition?                  | a) Administrator 9(21%)<br>b) Library Committee 34(79%)<br>c) Librarian 4(9%)                           |

\*Figures in parenthesis are relative frequencies based on the total number of reporting functional libraries (44).



TABLE 31  
EVALUATED DEMAND FOR LIBRARY SERVICES  
WITHIN REPORTING FUNCTIONAL LIBRARIES IN NEORMP

| LIBRARY SERVICES                          | REPORTED DEMAND |          |          |           |
|---|-----------------|----------|----------|-----------|
|   | Heavy           | Moderate | Little   | Not Given |
| 1. Loan of Books                          | 18 (41%)*       | 14 (32%) | 2 (15%)  | 10 (22%)  |
| 2. Loan of Unbound Journals               | 10 (23%)        | 14 (32%) | 6 (14%)  | 14 (31%)  |
| 3. Loan of Bound Journals                 | 9 (20%)         | 12 (27%) | 6 (14%)  | 17 (39%)  |
| 4. Inter-Library Loan                     | 3 ( 7%)         | 10 (23%) | 14 (31%) | 17 (39%)  |
| 5. Photocopy                              | 10 (23%)        | 8 (18%)  | 4 ( 9%)  | 22 (50%)  |
| 6. Quick Reference                        | 11 (25%)        | 14 (32%) | 2 ( 5%)  | 17 (39%)  |
| 7. Compilation of Bibliographies          | 8 (18%)         | 8 (18%)  | 5 (11%)  | 23 (53%)  |
| 8. Verification of Bibliographies         | 2 ( 5%)         | 7 (16%)  | 7 (16%)  | 28 (63%)  |
| 9. Routing Current Journals               | 3 ( 7%)         | 4 ( 9%)  | 4 ( 9%)  | 33 (75%)  |
| 10. Routing Acquisition Lists             | 2 ( 5%)         | 4 ( 9%)  | 3 ( 7%)  | 35 (79%)  |
| 11. Personal Notification of Acquisitions | 3 ( 7%)         | 10 (23%) | 5 (11%)  | 26 (59%)  |
| 12. Translation Service                   | 1 ( 2%)         | 6 (14%)  | 3 ( 7%)  | 34 (77%)  |
| 13. Loan of Films, Slides and Tapes       | 1 ( 2%)         | 5 (11%)  | 8 (18%)  | 30 (69%)  |
| 14. Loan of Audio-Visual Equipment        | 1 ( 2%)         | 3 ( 7%)  | 1 ( 2%)  | 39 (89%)  |

\*Figures in parenthesis are relative frequencies based on the total number of reporting functional libraries (44).

TABLE 32

PERCENTAGES OF LIBRARIANS FROM RESPONDING FUNCTIONAL LIBRARIES  
REPORTING INCREASED DEMAND ON THE LIBRARY RESULTING FROM HOSPITAL-BASED  
EDUCATIONAL AND RESEARCH PROGRAMS (NEORMP)

| PROGRAMS  | PERCENTAGE |
|---|------------|
| 1. Hospital-based<br>Training Programs                | 64%        |
| 2. Hospital-based<br>Continuing Education<br>Programs | 36%        |
| 3. Hospital-based<br>Research Programs                | 34%        |

\*Figures in parenthesis are relative frequencies  
based on the total number of reporting functional  
libraries (44).

TABLE 33

LIBRARY USAGE PATTERNS OF HOSPITAL PERSONNEL AS REPORTED  
BY FUNCTIONAL LIBRARIES IN NEORMP

| HOSPITAL PERSONNEL CATEGORIES        | REPORTED LIBRARY USAGE |          |          |           |
|--------------------------------------|------------------------|----------|----------|-----------|
|                                      | Heavy                  | Moderate | Little   | Not Given |
| 1. Attending Staff                   | 11 (25%)*              | 26 (59%) | 5 (11%)  | 2 ( 5%)   |
| 2. Courtesy Staff                    | 2 ( 5%)                | 18 (41%) | 13 (30%) | 11 (24%)  |
| 3. Residents**                       | 29 (66%)               | 5 (11%)  | 1 ( 2%)  | 9 (20%)   |
| 4. Interns                           | 26 (59%)               | 3 ( 7%)  | 1 ( 2%)  | 14 (32%)  |
| 5. Nurses                            | 3 ( 7%)                | 12 (27%) | 16 (36%) | 13 (30%)  |
| 6. Licensed Practical Nurses         | 1 ( 2%)                | 7 (16%)  | 12 (27%) | 24 (55%)  |
| 7. Medical Students                  | 5 (11%)                | 1 ( 2%)  | 2 ( 5%)  | 36 (82%)  |
| 8. Nursing Students                  | 5 (11%)                | 12 (27%) | 5 (11%)  | 22 (51%)  |
| 9. Practical Nursing                 | 1 ( 2%)                | 5 (11%)  | 9 (20%)  | 29 (67%)  |
| 10. Administrative Personnel         | 2 ( 5%)                | 10 (23%) | 16 (36%) | 16 (36%)  |
| 11. Research Personnel               | 9 (20%)                | 11 (25%) | 3 ( 7%)  | 21 (48%)  |
| 12. Dietitians                       | 1 ( 2%)                | 9 (20%)  | 12 (27%) | 22 (51%)  |
| 13. Social Work Personnel            | 3 ( 7%)                | 5 (11%)  | 6 (14%)  | 30 (68%)  |
| 14. Physical Therapy Personnel       | 2 ( 6%)                | 10 (23%) | 12 (27%) | 20 (44%)  |
| 15. Rehabilitation Therapy Personnel | 2 ( 5%)                | 6 (13%)  | 11 (25%) | 25 (57%)  |
| 16. Medical Technician Personnel     | 3 ( 7%)                | 7 (13%)  | 13 (30%) | 21 (50%)  |

\*Figures in parenthesis are relative frequencies based on the total number of reporting functional libraries (44).

\*\*All reporting hospitals do not report all categories of personnel; library privileges and key privileges appear to be extended to all personnel.

TABLE 34

CHECK-OUT POLICIES REGARDING JOURNALS  
AND REFERENCE BOOKS AS REPORTED BY  
FUNCTIONAL LIBRARIES IN NEORMP

| MATERIALS           | CHECK-OUT PERMITTED |
|---------------------|---------------------|
| 1. Reference Books  | 23 (48%)*           |
| 2. Current Journals | 34 (77%)            |
| 3. Bound Journals   | 38 (86%)            |

\*Figures in parenthesis are relative frequencies  
based on the total number of reporting functional  
libraries (44).

TABLE 35

THE LIBRARY COMMITTEE IN REPORTING FUNCTIONAL  
HOSPITAL LIBRARIES IN NEORMP

| ITEM  | RESPONSE |         |           |
|---|----------|---------|-----------|
|   | Yes      | No      | Not given |
| 1. Is there a library committee for the Medical Library?  | 38(86%)* | 3**(7%) | 2(7%)     |
| 2. Is the membership of the library committee based upon the representation of certain medical departments (services)?                                    | 29+(66%) | 9(20%)  | 5(14%)    |
| 3. Is the medical librarian a member of the committee?  | 30(68%)  | 8(18%)  | 5(14%)    |
| 4. Do library committee meetings result in written or oral directions to the medical librarian concerning the library collection, services or facilities? | 29(66%)  | 9(20%)  | 5(14%)    |

\*Figures in parenthesis are relative frequencies based on the total number of reporting functional libraries (44.)

\*\*In the three hospitals that reported no library committee, the librarian was responsible either to the administrator or to the Director of Medical Education.

+ A list of the medical departments represented on various library committees appears in Table 13.

TABLE 36

MEDICAL DEPARTMENT REPRESENTED ON  
LIBRARY COMMITTEES, AS REPORTED BY  
FUNCTIONAL HOSPITAL LIBRARIES WITHIN NEORMP.

| MEDICAL DEPARTMENTS (Services) | FREQUENCY |
|--------------------------------|-----------|
| Administration                 | 1 (2%)*   |
| General Practice               | 3 (7%)    |
| Laboratory, Pathology          | 9 (20%)   |
| Medical Education              | 3 (7%)    |
| Medicine                       | 25 (57%)  |
| Neurology                      | 1 (2%)    |
| OBGYN                          | 11 (25%)  |
| Orthopedics                    | 1 (2%)    |
| Pediatrics                     | 4 (9%)    |
| Psychiatry                     | 3 (7%)    |
| Surgery                        | 20 (45%)  |
| X-ray                          | 5 (11%)   |

\*Figures in parenthesis are relative frequencies based on the total number of reporting functional libraries (44).

TABLE 37

MEETING SCHEDULES FOR LIBRARY COMMITTEES AS  
REPORTED BY FUNCTIONAL HOSPITAL LIBRARIES IN NEORMP

| MEETING SCHEDULE | HOSPITAL REPORTING SCHEDULE |         |
|------------------|-----------------------------|---------|
|                  | Number                      | Percent |
| Once/week        | 2                           | 6%      |
| Once/month       | 7                           | 16%     |
| Once/3 months    | 10                          | 23%     |
| Twice/year       | 5                           | 11%     |
| Sporadically     | 15                          | 34%     |
| Not Given        | 5                           | 10%     |

TABLE 38

TYPES OF ADMINISTRATIVE CONTROL EXERCISED  
BY LIBRARY COMMITTEES, AS REPORTED  
BY FUNCTIONAL HOSPITAL LIBRARIES IN  
NEORMP

| CONTROL            | FREQUENCY |         |
|--------------------|-----------|---------|
|                    | NUMBER    | PERCENT |
| Budget             | 24        | 55%*    |
| Acquisition Policy | 34        | 77%     |
| Circulation Policy | 28        | 64%     |
| Library Services   | 20        | 45%     |

\*Relative frequency based on total number of reporting functional libraries (44).



## Chapter IV

### DATA DESCRIBING FUNCTIONAL LIBRARY MANPOWER WITHIN NORTHEASTERN OHIO REGIONAL MEDICAL PROGRAM

#### A. Sources and Organization of Data

The tables which follow describe the manpower employed in the 50 functional hospital libraries within the RMP, with particular reference to their educational attainment, the amount of time spent in the medical library and job mobility. Data were drawn from two sources, and the source is indicated in each of the tables. The first source was the Medical Library Questionnaire completed for 44 of the 50 functional libraries within the RMP. The other source was a questionnaire sent directly to each person who reported spending any part of his/her time performing library tasks. This latter questionnaire was completed by 38 persons.\*

It is for this group of persons in Ohio, and for their counterparts in other functional hospital libraries, that programs of continuing education will be designed. These educational programs will concentrate on the development of skills and attitudes necessary for the provision of better user services. Library personnel will be introduced to efficient methods of information organization and dissemination, and to the procedures of inter-library loan and of locating and using library resources within their region. Methods of maximizing limited budgets

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\*See Interim Report Number One for the Librarian Questionnaire Rees, Alan M. and Lesliebeth Rothenberg, Interim Report No. 1 cited above.

will be stressed as well as the development of personalized user services. It is hoped that the end result of these programs will be the development and optimization of an user-oriented information transfer network within geographic regions and the integration of regional networks into the existing health sciences library systems.

#### B. Tables

The following tables summarize data relating to the educational attainment, age, job mobility and work experience of reporting personnel. Tables 40 and 41 are of particular interest; they indicate the amount of time spent by library personnel in library work and the types of non-library tasks that they also perform. Data regarding age and length of present employment are of interest in that they indicate the job stability of these persons, and, therefore, argue for their continued education.

TABLE 39\*\*

FREQUENCY DISTRIBUTION OF THE LEVEL  
OF EDUCATION OF ALL PERSONNEL WORKING  
IN REPORTING FUNCTIONAL HOSPITAL LIBRARIES IN  
THE NORTHEAST OHIO REGIONAL MEDICAL PROGRAM (NEORMP)

| HIGHEST ACADEMIC<br>ACHIEVEMENT | DISTRIBUTION |         | UNDERGRADUATE<br>MAJOR        |
|---------------------------------|--------------|---------|-------------------------------|
|                                 | Frequency    | Percent |                               |
| High School                     | 17           | 39%     |                               |
| BA or BS                        | 6            | 14%     | 2 Liberal Arts<br>14 Sciences |
| MA or MS                        | 2            | 5%      |                               |
| Library Degree*                 | 8            | 19%     |                               |
| Unspecified                     | 11           | 23%     |                               |
| TOTAL                           | 44           | 100%    |                               |

\*Library degree includes BSLS and MSLS.

\*\*Data drawn from the Medical Library Questionnaire.

TABLE 40\*

KINDS AND FREQUENCIES OF NON-LIBRARY TASKS  
PERFORMED BY REPORTING LIBRARY PERSONNEL IN FUNCTIONAL LIBRARIES IN NEORMP

| NON-LIBRARY TASKS    | DISTRIBUTION |         |
|----------------------|--------------|---------|
|                      | Frequency    | Percent |
| Medical Records      | 10           | 23%     |
| Clerical/Secretarial | 2            | 5%      |
| No other tasks       | 9            | 21%     |
| Not Given            | 23           | 51%     |
| TOTAL                | 44           | 100%    |

\*Data drawn from the Medical Library Questionnaire.

TABLE 41\*

DISTRIBUTION OF FUNCTIONAL LIBRARY PERSONNEL  
BY TIME REPORTED IN LIBRARY

| PERCENTAGE OF TIME SPENT<br>IN LIBRARY | NUMBER OF<br>PERSONS |
|--|----------------------|
| 1 - 5 %                                | 3                    |
| 6 - 10%                                | 4                    |
| 11 - 25%                               | 2                    |
| 26 - 50%                               | 3                    |
| 51 - 75%                               | 1                    |
| 76 - 100%                              | 20                   |
| NOT GIVEN                              | 11                   |

\*Data drawn from the Medical Library Questionnaire.

TABLE 42\*

STATISTICAL DESCRIPTION OF LIBRARY MANPOWER,  
BY HIGHEST ACADEMIC DEGREE

| Degree         | Mean Year of Award | Mean Age (1968) | Mean Number of Years in Present Job |
|----------------|--------------------|-----------------|-------------------------------------|
| High School    | 1940               | 46              | 4 years                             |
| BS or BA       | 1962               | 28              | 2 years                             |
| MS or MA       | Not Given          | Not Given       | 4 years                             |
| Library Degree | 1951               | 40              | 7 years                             |

\*Data taken from Librarian Questionnaire

| Degree         | Number Reporting Continuing Education Courses | Number Reporting Previous Library Job Experience | Number Reporting On-The-Job-Training |
|----------------|---|--|--------------------------------------|
| High School    | 5   | 2  | 14                                   |
| BS or BA       | 1   | 0  | 2                                    |
| MS or MA       | 0   | 0  | 0                                    |
| Library Degree | 2   | 6  | 2                                    |

## **Chapter V**

### **APPENDICES**

- A. Hospitals Within the Northeastern  
Ohio Regional Medical Program, by  
County**

APPENDIX A

HOSPITALS WITHIN THE NORTHEASTERN OHIO REGIONAL MEDICAL PROGRAM  
BY COUNTY

Ashtabula County

Memorial Hospital of Geneva

Mr. Eugene L. Swanson, Administrator

Miss Dorothy Geho, Med. Lib.

Ashtabula General Hospital

Mr. George C. Dubach, Administrator

Mrs. C. Kiefer, Med. Lib.

Brown Memorial Hospital

Mrs. Lois Laugen, Administrator

Dr. Jorge Ricaurte, Med. Lib.

Columbiana County

East Liverpool City Hospital

Miss Nell Ribinson, Administrator

??

East Liverpool Osteopathic Hospital

John E. Hayes, D.O., Administrator

W.G. Jones, Med. Lib.

Salem City

Robert F. Rice

Central Clinic and Hospital

Mr. Jerry A. Colaizzi, Administrator

Dr. A.I. Suliot, Med. Lib.

Cuyahoga County

Cleveland Clinic

Mr. James G. Harding, Administrator

Miss Rita Feran, Med. Lib.

Cleveland Metropolitan General

Mr. David A. Miller, Administrator

Miss Elizabeth Stein, Med. Lib.

Fairview General

Mr. Edwin F. Ross, Administrator

Mrs. Mary Lou Ratzloff, Med. Lib.



Cuyahoga County

Highland View Hospital

Mr. E.W. Miller, Administrator  
Methodius Plashkach, Med. Lib.

Huron Road Hospital

Mr. E. W. Miller, Administrator  
Miss Mary Krichbaum, Librarian

Mt. Sinai Hospital

Mr. Sidney Lewine, Administrator  
Mrs. Alice Davidson, Head Lib.

St. John's Hospital

Sister Mary Jean Andre, Administrator  
Sister M. Joannes, Med. Lib.

St. Luke's Hospital

Mr. Kenneth J. Shoos, Administrator  
Miss Mary A. Kumor, Med. Lib.

St. Vincent Charity

Sister M. Timothy, Administrator  
W. Braxton Cooley, Librarian

University Hospitals

Mr. Stanley A. Ferguson, Administrator  
Shirley Reiter, Med. Lib.

Euclid General Hospital

Mr. Jay W. Collins, Administrator  
Helen A. Hayes, Med. Lib.

Lakewood Hospital

Mr. Arthur A. Lepinot, Administrator  
Mrs. Dorothy Jorgens, Med. Lib.

Veterans Administration Hospital

Samuel L. Aspis, Administrator  
Dorothy L. Smith, Med. Lib.

Veterans Administration Hospital

J. W. Standeven, M.D., Administrator  
Mrs. Liona Stevens, Med. Lib.

Cleveland Psychiatric Institute

Edward N. Hinko, M.D., Administrator  
Mrs. Elsie Kaiser, Med. Lib.

Cuyahoga County

**Bay View Hospital**

John A. Rowland, Administrator

Ida Broadwell, Med. Lib.

**Bedford Municipal**

Miss Florence H. Cline, Administrator

Marie M. Cullen, Med. Lib.

**Booth Memorial**

Captain Glen Seiler, Administrator

Brigadier J.E. King, Med. Lib.

**Grace Hospital**

Mr. Ronald M. Streem, Administrator

Violet Kopalko, Med. Lib.

**Marymount Hospital**

Sister Mary Camille, Administrator

Mrs. Alice Boggess, Med. Lib.

**Ingleside Hospital**

Mr. George H. Holmes, Administrator

Frances F. Crawfis, Med. Lib.

**Forest City Hospital**

Mr. James Saponaro, Administrator

Miss Therese Dykes, Med. Lib.

**Woman's Hospital**

Miss Gladys A. Cooper, Administrator

Mrs. H. Wilkins, Med. Lib.

**Parma Community Hospital**

Mr. John Tatum, Administrator

Philomena Calabua, Med. Lib.

**St. Alexis**

Sister M. Emmalita, Administrator

Miss Seminary, Med. Lib.

**Lutheran Hospital**

Mr. Luther W. Goehring, Administrator

Miss Joan Solly, Med. Lib.

**Polyclinic Hospital**

Mr. Roger W. Marquand, Administrator

Ruth Sabin, Med. Lib.

Cuyahoga County

Sunny Acres

Hugh B. Kelly, M.D., Administrator  
Mrs. G. Hogarth, Clerk Stenographer

Suburban Community Hospital

Mr. J. Richard Cartmell, Administrator  
Sidney Lobe, M.D., Med. Lib.

Evangelical Deaconess

Mr. C. M. Nikel, Administrator  
Victor Hirsch, M.D., Med. Lib.

Southwest General

Mrs. Helen B. Ott, Administrator  
Dorothy E. Schult, Asst. Admin.

Richmond Heights General

Mr. D.W. Adams, Administrator  
D. J. Aveni, Med. Lib.

Brentwood Hospital

Mr. Paul J. Stitzel, Administrator  
R. P. Denise, D.O., Med. Lib.

St. Ann Hospital

Sister Mary Adrienne, Administrator  
Dr. William Macey, Med. Lib.

Shaker Medical Center

Mr. Joseph W. Davis, Administrator  
Edward Neary, M.D., Med. Lib.

Doctor's Hospital

Mr. Robert Moss, Administrator

Geauga County

Geauga Community Hospital

Mr. William D. Hilliard, Administrator  
Mrs. L. Thomas, Med. Lib.

Lorain County

St. Joseph Hospital

Sister Helen Bonham, Administrator  
Mrs. M. Cozard, Med. Lib.

Lorain County

Elyria Memorial Hospital  
Mr. Harold A. Zealley, Administrator  
Agnes Anderson, Med. Lib.

Lorain Community Hospital  
Mr. James E. Huson, Administrator  
Mrs. Frances A. Kolbmann, Med. Lib.

Southern Lorain County Hospital  
Mr. A. E. Tewksbury, Administrator  
Jean Hartman, Med. Lib.

Allen Memorial Hospital  
Mr. Donald C. Leine, Administrator  
Rupert O. Clark, M.D., Med. Lib.

Mahoning County

Youngstown Hospital  
Mr. William B. Esson, Administrator  
Mrs. Sallie Moran, Med. Lib.

St. Elizabeth Hospital  
Sister Mary Consolata, Administrator  
Nancy Lorenzi, Med. Lib.

Medina County

Lodi Community Hospital  
Mr. David W. W. Snyder, Administrator  
Mrs. Loretta Burrows, Med. Lib.

Medina Community Hospital  
Mr. Edward A. Hall, Administrator

Portage County

Robinson Memorial Hospital of Portage County  
Mr. Paul C. Jacobs, Administrator  
Miss Kay Hutchins, Med. Lib.

Stark County

Aultman Hospital  
Mr. Howard R. Taylor, Administrator  
Leah Huff, Medical Librarian

Stark County

Timken-Mercy Hospital  
Sister M. Marcia, Administrator  
Sister Kathleen, Med. Lib.

Massillon Hospital

Mr. Robert L. Zucker, Administrator  
Dr. Frank Goodnough, Med. Lib.

Doctor's Hospital

Mr. Matthew S. Haroneski, Administrator  
Irving M. Gordeon, D. O., Med. Lib.

Summit County

Akron City Hospital

Mr. Harold R. Funk, Administrator  
Mrs. Margaret Chaff, Med. Lib.

Akron General Hospital

Joseph S. Lichty, M.D., Administrator  
Mrs. Helen Schlemmer, Medical Lib.

Children's Hospital

Mr. Roger Sherman, Administrator  
Roberta Shorter, Medical Lib.

St. Thomas Hospital

Sister MaryBrigid, Administrator  
Mrs. Julia Aydlett, Med. Lib.

Green Cross General

Mr. Ralph Keilch, Administrator  
Mrs. Thelma Freeman, Med. Lib.

Trumbull County

Trumbull Memorial Hospital

Mr. John F. Latcham, Administrator  
Mrs. Sumers, Med. Lib.

Community Hospital

Mr. Frank H. Trio, Administrator  
Mrs. Marie Marlatt, Med. Lib.

Warren General Hospital

R. D. Pilasky, Administrator  
Thomas Rusk, D.O. Med. Lib.

Trumbull County

Hillside Hospital

Donn F. Covert, M.D., Administrator

Donn F. Covert, Med. Lib.

St. Joseph's Riverside Hospital

Sister Mary Vincentia, Administrator

Sister Mary Vincentia, Med. Lib.

Lake County

Lake County Memorial Hospital

James I. Boyce, Administrator

Mrs. A.E. White, Med. Lib.

Northeastern Ohio General Hospital

John J. Russell

Dr. Malinowski, Med. Lib.

## **APPENDICES**

### **B. Medical Practice Data For Northeastern Ohio Regional Medical Program**

APPENDIX B-1

MEDICAL PRACTICE DATA FOR NEORMP (12 Counties)\*

| MAJOR PROFESSIONAL ACTIVITY - DECEMBER 31, 1967 |                      |       |   |               |                |                |                   |                     |          |                   |                     |          |
|---|----------------------|-------|---|---------------|----------------|----------------|-------------------|---------------------|----------|-------------------|---------------------|----------|
| County  | Total<br>Non-Federal | Total | PATIENT CARE                                    |               |                |                |                   |                     |          | Hospital<br>Based | Other<br>Prof. Act. | Inactive |
|   |                      |       | Solo, Partnership, Group, and Other<br>Practice |               |                | Other<br>Spec. | Hospital<br>Based | Other<br>Prof. Act. | Inactive |                   |                     |          |
|   |                      |       | Gen.<br>Pract.                                  | Med.<br>Spec. | Surg.<br>Spec. |                |                   |                     |          |                   |                     |          |
|   |                      |       |   |               |                |                |                   |                     |          |                   |                     |          |
| NEORMP (12 Counties)                            | 6,221                | 5,776 | 1,049   | 941           | 1,291          | 640            | 1,855             | 277                 | 168      |                   |                     |          |
| Ashtabula                                       | 59                   | 58    | 31  | 4             | 17             | 4              | 2                 |                     | 1        |                   |                     |          |
| Columbiana                                      | 72                   | 68    | 44  | 6             | 11             | 5              | 2                 |                     | 4        |                   |                     |          |
| Cuyahoga  | 3,777                | 3,447 | 468   | 577           | 703            | 356            | 1,343             | 254                 | 76       |                   |                     |          |
| Geauga  | 33                   | 31    | 9   | 2             | 10             | 10             |                   |                     | 2        |                   |                     |          |
| Lake  | 119                  | 110   | 39  | 18            | 37             | 15             | 1                 | 1                   | 8        |                   |                     |          |
| Lorain  | 243                  | 232   | 69  | 26            | 49             | 38             | 50                | 3                   | 8        |                   |                     |          |
| Mahoning  | 464                  | 449   | 76  | 84            | 108            | 48             | 133               | 4                   | 11       |                   |                     |          |
| Medina  | 57                   | 53    | 30  | 9             | 10             | 4              |                   |                     | 4        |                   |                     |          |
| Portage   | 71                   | 60    | 21  | 7             | 18             | 6              | 8                 | 5                   | 6        |                   |                     |          |
| Stark   | 379                  | 358   | 71  | 76            | 120            | 45             | 46                | 1                   | 20       |                   |                     |          |
| Summit  | 767                  | 739   | 140   | 113           | 165            | 90             | 231               | 7                   | 21       |                   |                     |          |
| Trumbull  | 180                  | 171   | 51  | 19            | 43             | 19             | 39                | 2                   | 7        |                   |                     |          |

\*Reprinted from: American Medical Association, Distribution of Physicians, Hospitals, and Hospital Beds in the U.S., 1967, Table 12.



APPENDIX B-2

MEDICAL PRACTICE DATA FOR NEORMP (12 COUNTIES)\*

| HOSPITAL AND POPULATION DATA |                     |        |                         |                     |                                 |
|------------------------------|---------------------|--------|-------------------------|---------------------|---------------------------------|
| County                       | Number of Hospitals |        | Number of Hospital Beds | Resident Population | Income Per Capita Per Household |
|                              | — December 1, 1967  | —      |                         |                     |                                 |
| NEORMP (12 counties)         | 59                  | 15,259 | 4,109,300               | January 1, 1967     | — 1966 —                        |
| Ashtabula                    | 3                   | 307    | 100,200                 | 2,315               | 7,865                           |
| Columbiana                   | 3                   | 394    | 105,800                 | 2,202               | 7,302                           |
| Cuyahoga                     | 27                  | 7,690  | 1,763,000               | 3,074               | 10,159                          |
| Geauga                       | 1                   | 103    | 59,300                  | 2,708               | 10,163                          |
| Lake                         | 1                   | 325    | 181,400                 | 2,773               | 10,062                          |
| Lorain                       | 5                   | 808    | 255,400                 | 2,372               | 8,567                           |
| Mahoning                     | 2                   | 1,351  | 299,900                 | 2,376               | 8,217                           |
| Medina                       | 3                   | 244    | 75,100                  | 2,397               | 8,533                           |
| Portage                      | 1                   | 228    | 108,300                 | 2,392               | 9,027                           |
| Stark                        | 5                   | 1,322  | 366,000                 | 2,545               | 8,655                           |
| Summit                       | 6                   | 1,981  | 559,400                 | 2,765               | 9,286                           |
| Trumbull                     | 2                   | 506    | 234,500                 | 2,442               | 8,523                           |

\*Reprinted from: American Medical Association, Distribution of Physicians, Hospitals, and Hospital Beds in the U.S., 1967, Table 12.